

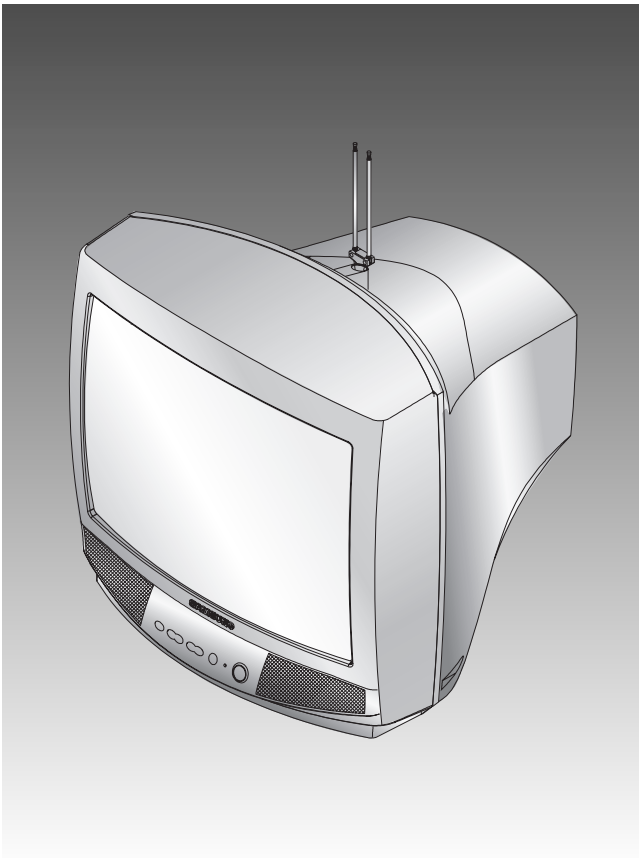
**SAMSUNG**

# COLOR TELEVISION RECEIVER

Chassis : K15A  
Model : CM19001X/KMT

# **SERVICE** *Manual*

## COLOR TELEVISION RECEIVER



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## 1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

### 1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people—particularly children—might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):  
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANIS C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).
5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

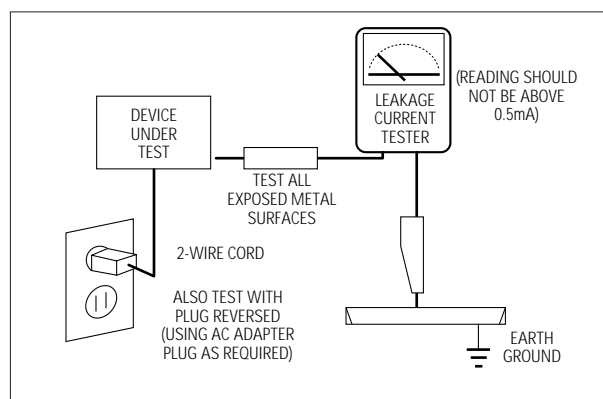




Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:  
With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.
7. X-ray Limits:  
The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.
8. High Voltage Limits:  
High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced.  
(X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

Heed the high voltage limits. These include the X-ray Protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

## 1-1 Safety Precautions (Continued)

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9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
10. Design Alteration Warning:  
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
11. Hot Chassis Warning:  
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.  
  
To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.
13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.
14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
16. Picture Tube Implosion Warning:  
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
18. Product Safety Notice:  
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.  
  
Components that are critical for safety are indicated in the circuit diagram by shading, () or ().  
Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

## 1-2 Servicing Precautions

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Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

Warning2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.  
  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

## 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

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1. Some semiconductor (“solid state”) devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power—this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as “anti-static”; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

## 2. Specifications

### 2-1 Specifications

Television System	14"/20"/21" NTSC COLOR TV SIGNAL
Power Consumption	14" : 57 WATTS NOMINAL, 20" : 70 WATTS NOMINAL 21" : 75 WATTS NOMINAL,
Picture Tube	14" : A34KQV42X 20" : A48KRD82X (H) 21": : A51KQJ63X (H)
Power Requirement	AC 120V, 60Hz /AC 100 ~ 240, 50Hz, 60Hz
Operating System	REMOCON SYSTEM (SZM354ET)
Tuning Ranges	VHF CH : 2-13, UHF CH : 14-69, CABLE CH : 1,14-125
Antenna Input Impedance	75 ohm UNBALANCED TYPE FOR VHF/UHF
Intermediate Frequency	PICTURE 45.75MHz, SOUND 41.25MHz, COLOR SUB CARRIER 42.17MHz
Speaker Impedance	Single: 8 ohm 3W Dual : 8 ohm 3W x 2 Dual : 16 ohm , 3W x 2 (CT-33H1, CT-50H1)

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## 3. Disassembly and Reassembly

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### 3-1 Back Cover Removal

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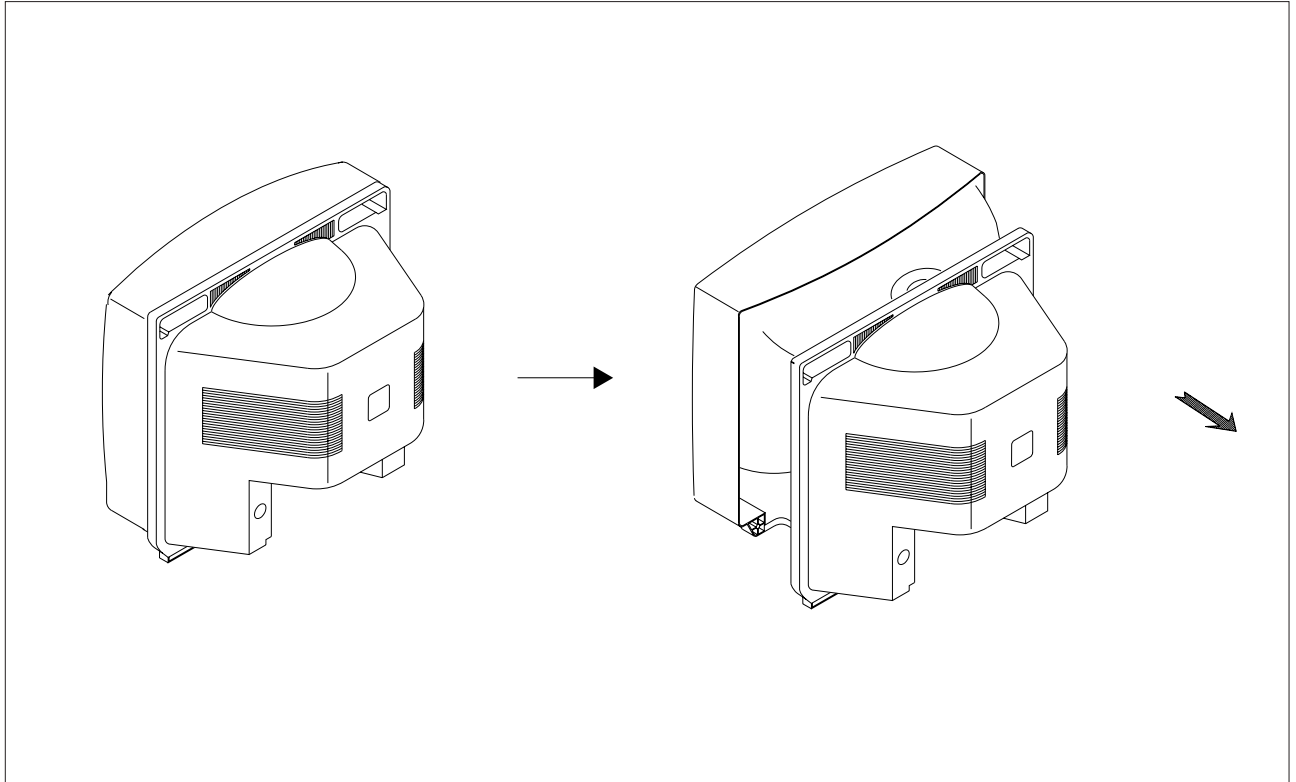


Fig. 3-1

1. After removing the screws, pull the cabinet backwards.



### 3-2 Main Board Removal

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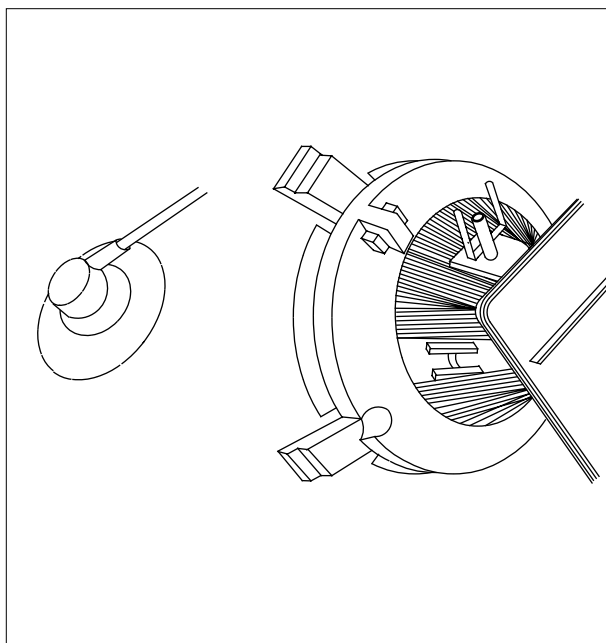


Fig. 3-2

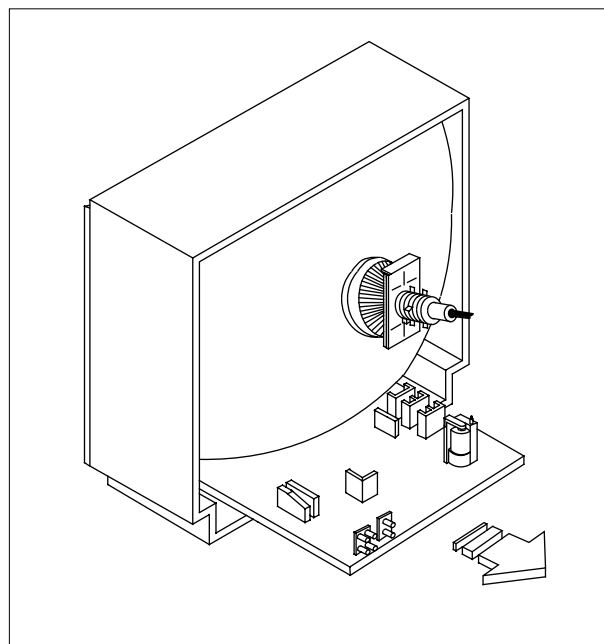


Fig. 3-3

1. Separate the socket board from the CRT neck.
2. Remove the Anode Cap from the CRT.
3. Remove the main board by pulling it with both hands.

Warning: The FBT is charged with high voltage.  
Before removing the Anode Cap, discharge the voltage  
through one of the heat sinks on the main board.

### 3-3 Speaker Removal

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1. Loosen the screws and remove the speakers.

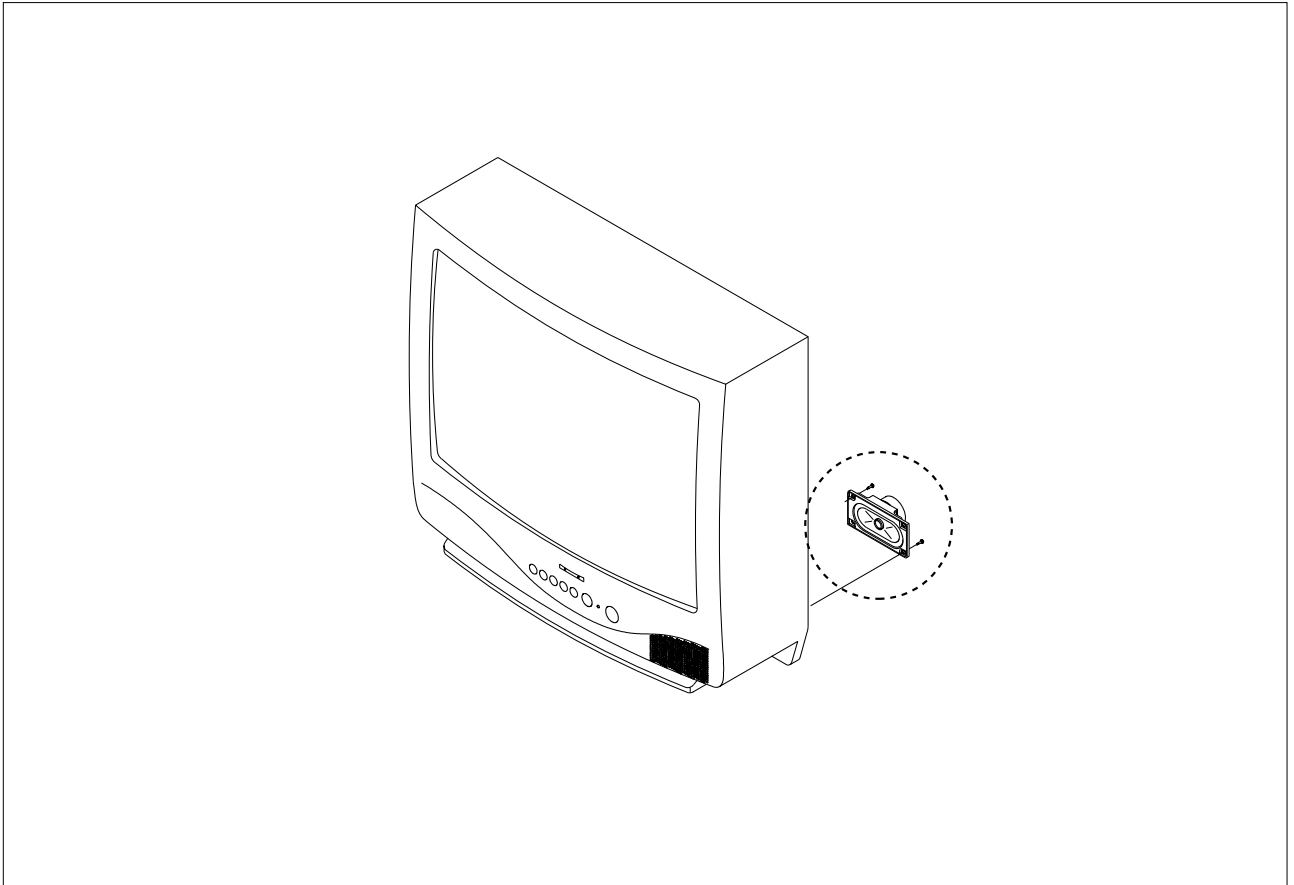


Fig. 3-4

## 3-4 CRT Removal

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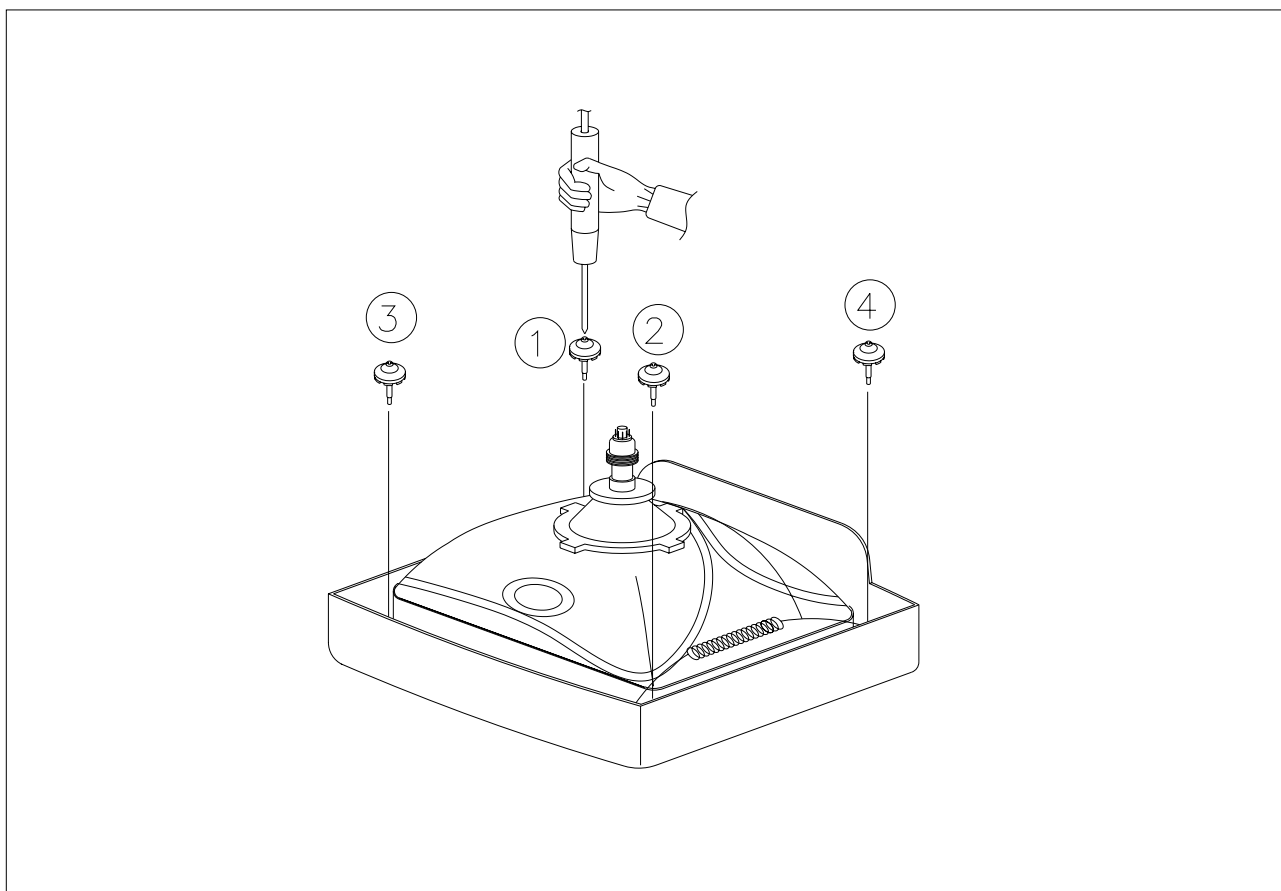


Fig. 3-5

1. Spread a soft mat on the floor. Place the TV set face down.
2. Remove the 4 nuts mounting the CRT to the front cabinet.
3. Lift the CRT.
4. Caution: Because of the high vacuum and large surface area of the picture tube, be careful while handling it:  
(1) Always lift the picture tube by grasping it firmly around the face-plate, (2) Never lift the tube by its neck. (3) Do not scratch the picture tube or apply excessive pressure. Fractures of the glass may cause an implosion.

## 4. Alignment and Adjustments

### 4-1 Service Mode Adjustments

#### 4-1-1 Service Mode Menus

Since there are no VRs in the K15A chassis, all adjustments after parts replacement must be done in the Service Mode. Service Mode adjustments are necessary when either the EEPROM (IC902) or the CRT is replaced.

#### 4-1-2 Entering the Service Mode

Press the following transmitter keys while in STAND-BY mode:

MUTE—>1—>8—>2—>POWER  
“Factory Mode Menu” is displayed

ADJUSTMENT	<---selected (violet)
PATTERN	
OPTION	
RESET	

Enter Service Mode using the Volume +,- keys. Service Mode Menu:

AGC	XX	RC	XXX
VCO	XX	GC	XXX
SBT	XX	BC	XX
SCT	XX	VA	XX
SCR	XX	VS	XX
STT	XXX	HS	XX
GG	XXX	SS	XX
BG	XXX	SVC : MUTE	

Select a mode to be adjusted, using the channel down key. Example: VCO.

AGC	XX	RC	XXX
VCO	XX	GC	XXX
SBT	XX	BC	XX
SCT	XX	VA	XX
SCR	XX	VS	XX
STT	XXX	HS	XX
GG	XXX	SS	XX
BG	XXX	SVC : MUTE	

Change the data with “Volume +, - “ keys.

VCO	71
-----	----

Return to the Service mode by pressing MENU.

AGC	XX	RC	XXX
VCO	XX	GC	XXX
SBT	XX	BC	XX
SCT	XX	VA	XX
SCR	XX	VS	XX
STT	XXX	HS	XX
GG	XXX	SS	XX
BG	XXX	SVC : MUTE	

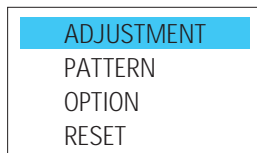
Return to the Factory mode via the MENU key.

ADJUSTMENT
PATTERN
OPTION
RESET

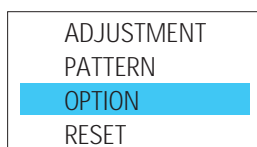
Press POWER to enter the Stand-by mode.

### 4-1-3 Adjustment in Option Mode

This adjustment is necessary whenever the EEPROM is replaced. Input data (as marked on the back cabinet).



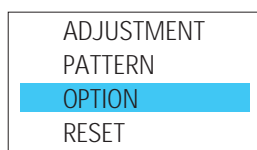
Select "SET OPTION" by pressing the Channel ▼ key twice.



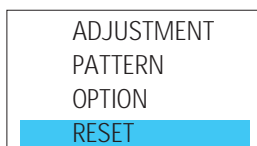
Press the Volume +, - keys to enter the set Option mode.



Press MENU to go back to the factory mode.



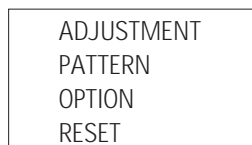
Select RESET with channel ▼ key.



Press volume + key.



### 4-1-4 Service Mode Adjustments



1. The Pattern Adjustment is done only in the factory. Do not attempt to readjust it.
2. Refer to 4-2 for other adjustments.
3. Set OPTION data.

### 4-1-5 Service Mode Adjustment Ratings

No	Item	Function	Range	Initialized MICOM Data
1	AGC	RF AGC Adjustment	0-63	50
2	VCO	PIF VCO Adjustment	0-127	63
3	SCT	SUB-CONTRAST Adjustment	0-63	48
4	SCR	SUB-COLOR Adjustment	0-27	13
5	STT	SUB-TINT Adjustment	0-27	7
6	RC	RED-CUT OFF Adjustment	0-255	0
7	GC	GREEN-CUT OFF Adjustment	0-255	0
8	BC	BLUE-CUT OFF Adjustment	0-255	0
9	SVC	Input a Horiz line pattern		
10	GG	GREEN-GAIN Adjustment	0-255	127
11	BG	BLUE-GAIN Adjustment	0-255	127
12	SBT	SUB-BRIGHTNESS Adjustment	0-63	31
13	VA	VERTICAL SIZE Adjustment	0-63	39
14	VS	VERTICAL CENTER Adjustment	0	0
15	HS	HORIZONTAL Phase Adjustment	0-31	15
16	SS	SUB-SHARPNESS Adjustment	0-31	4

Note : The initial MICOM data values take effect when IC902 is replaced.

## 4-2 Alignment and Adjustment


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### 4-2-1 General Alignment Instructions

1. Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as picture height, focus and a horizontal and vertical sync.
2. Observe the picture and check for good black and white details. There should be no objectionable color shading; If color shading is present, demagnetize the receiver. If color shading persists, perform purity and convergence adjustments described below.
3. To protect against shock hazard, use an isolation transformer.

### 4-2-2 Power Supply Check

Check the following:

- A: Power plug is connected; "Stand-by" mode  
 B: Power On when "Power ON" button is pressed  
 C: Power On by FBT Each supply is marked on its lead-in wire. (  )

### 4-2-3 Focus Adjustment

Adjust the focus control on the FBT for well defined scanning lines.

### 4-2-4 Fail Safe Circuit Check (FS) (OPTION)

1. The failsafe check must be the final step in servicing.
2. Turn the power switch ON and adjust customer controls for normal operation.
3. Temporarily short pin X to pin R on the main board (RX06, RX04) with a jumper wire. Raster will disappear.
4. The TV must remain in this state even after removing the jumper wire. This shows that the failsafe circuit is working properly.
5. To recover picture and sound, temporarily turn off the TV and allow the failsafe circuit more than 30 seconds to reset. Then switch power ON to produce normal picture and sound.

### 4-2-5 IC902 Replacement

1. When IC902 is replaced, all values are reset to "Initialized MICOM Data" and readjustment is necessary.
2. Press the POWER button 10 seconds after plug-in.
3. To enter the Service Mode, refer to Fig. 4-1 (Service Mode Adjustment).

### 4-2-6 PIF VCO Adjustment

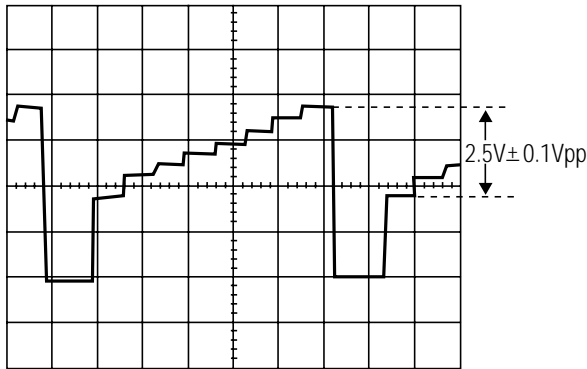
1. Use a Pattern Generator or an off-air signal.
2. Open pin 11 of Micom (IC901) or one side of lead pin for R237.
3. Adjust VCO in the service mode to set IC101 Pin 44 (AFT) to  $2.5V \pm 0.4V$ .
4. Connect the opened site.

### 4-2-7 RF-AGC Adjustment

1. Input a PHILLIPS pattern.
2. Set the input signal to 60 dB.
3. Enter into the AGC in the service mode.
4. Adjust AGC until color bar noise disappears.

### 4-2-8 Sub-Contrast Adjustment

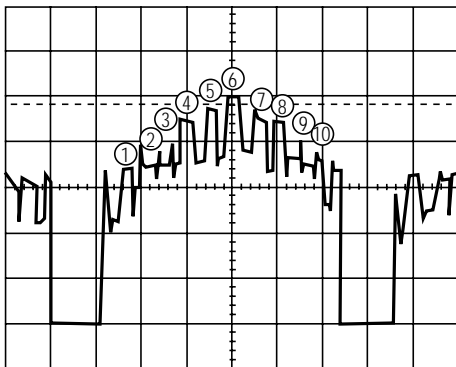
1. Input a gray scale pattern. Use a pattern generator (PM5518).
2. Short D208 to switch off the ABL feed-back.
3. Check CN201 R-OUT with an oscilloscope.
4. Set RC, BC, GC data to 0 in the Service Mode.
5. Adjust SCT to  $2.40 \pm 0.1V_{p-p}$



6. Remove the short across D208 and restore ABL.

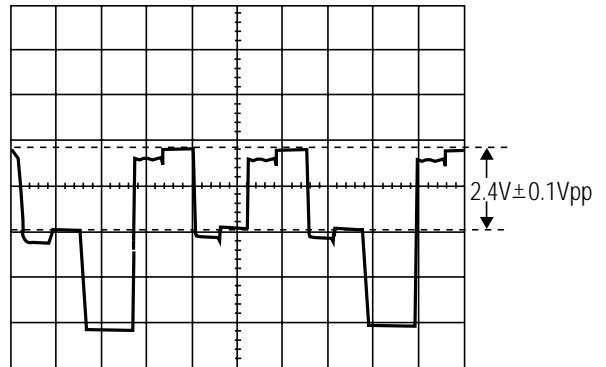
### 4-2-9 Sub-Tint Adjustment

1. Input a rainbow pattern.
2. Check CN201 B-OUT with an oscilloscope.
3. Adjust STT in the service mode until the 6th peak is the highest and the 5th and 7th peaks have equal heights.



### 4-2-10 Sub-Color Adjustment

1. Do sub-color adjustment after the Sub-Contrast and Sub-Tint adjustments.
2. D208 should still be shorted. The ABL should still be switched OFF.
3. Input a color bar pattern. Use a pattern generator (PM5518).
4. Check CN201 R-OUT (use an oscilloscope).
5. Ensure that the RC, GC and BC data are 0. BG are 140 and GG should be 90.
6. Adjust SCR to  $2.4 \pm 0.1V_{p-p}$  (black and red levels).
7. Remove the short across D208 and restore ABL.



### 4-2-11 White Balance Adjustment

#### 4-2-11 (A) LOW-LIGHT ADJUSTMENTS

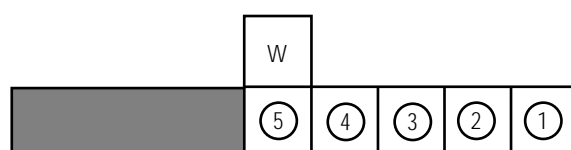
1. Input either a lion head or “pure white” color pattern.
2. Operate the receiver for 30 minutes.
3. Check the data in the service mode:  
RC, GC, BC are 0 and SB is 16;  
Steps BG are 90 and GG are 140.
4. Enter the horizontal line mode by pressing the MUTE key.
5. Adjust the screen VR on the FBT until a dim colored line (red, green or blue) appears on the screen.
6. After pressing the MUTE key, go to RC, BC or GC with channel ▲, ▼ keys. After putting a dim colored line (red, green or blue) in the horizontal line with MUTE key, adjust color with volume ▲, ▼ keys.
7. Exit the horizontal line via the MUTE key.

#### 4-2-11 (B) HIGH-LIGHT ADJUSTMENTS

1. Input a high-light pattern
2. Adjust GG, BG in the Service Mode.
3. Recheck in low light.

### 4-2-12 Sub-Brightness Adjustment

1. Input a Toshiba pattern.
2. Warm up the receiver for 10 minutes.
3. Enter the Service Mode and set SB to the point where the 5th point is brighter in the gray scale.



### 4-2-13 Vertical Size Adjustment

1. Input a lion head pattern.
2. After the vertical center adjustment, enter into the service mode.
3. Adjust VA so that the each top and bottom of the screen is 4.0. If the top and bottom values are different, adjust VA so that the sum of the two values is 8.0.

### 4-2-14 Horizontal Size Adjustment

1. Receive a lion head pattern.
2. Enter into the service mode.
3. Adjust HS to symmetrized right and left.

### 4-2-15 When CRT Is Replaced

Do the following adjustments after the basic purity and convergence adjustments.

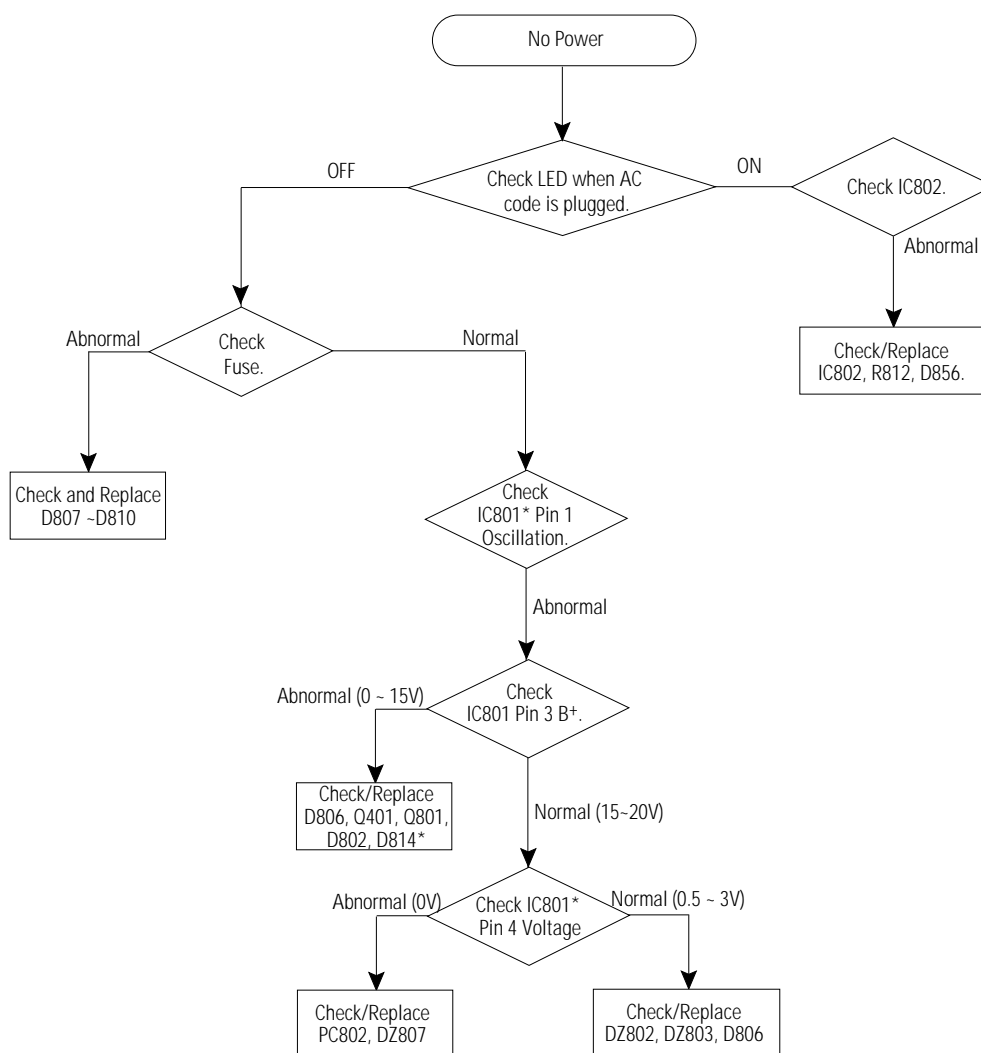
1. White Balance
2. Sub-brightness
3. Vertical Size
4. Horizontal Size
5. Fail safe (should be the final step).



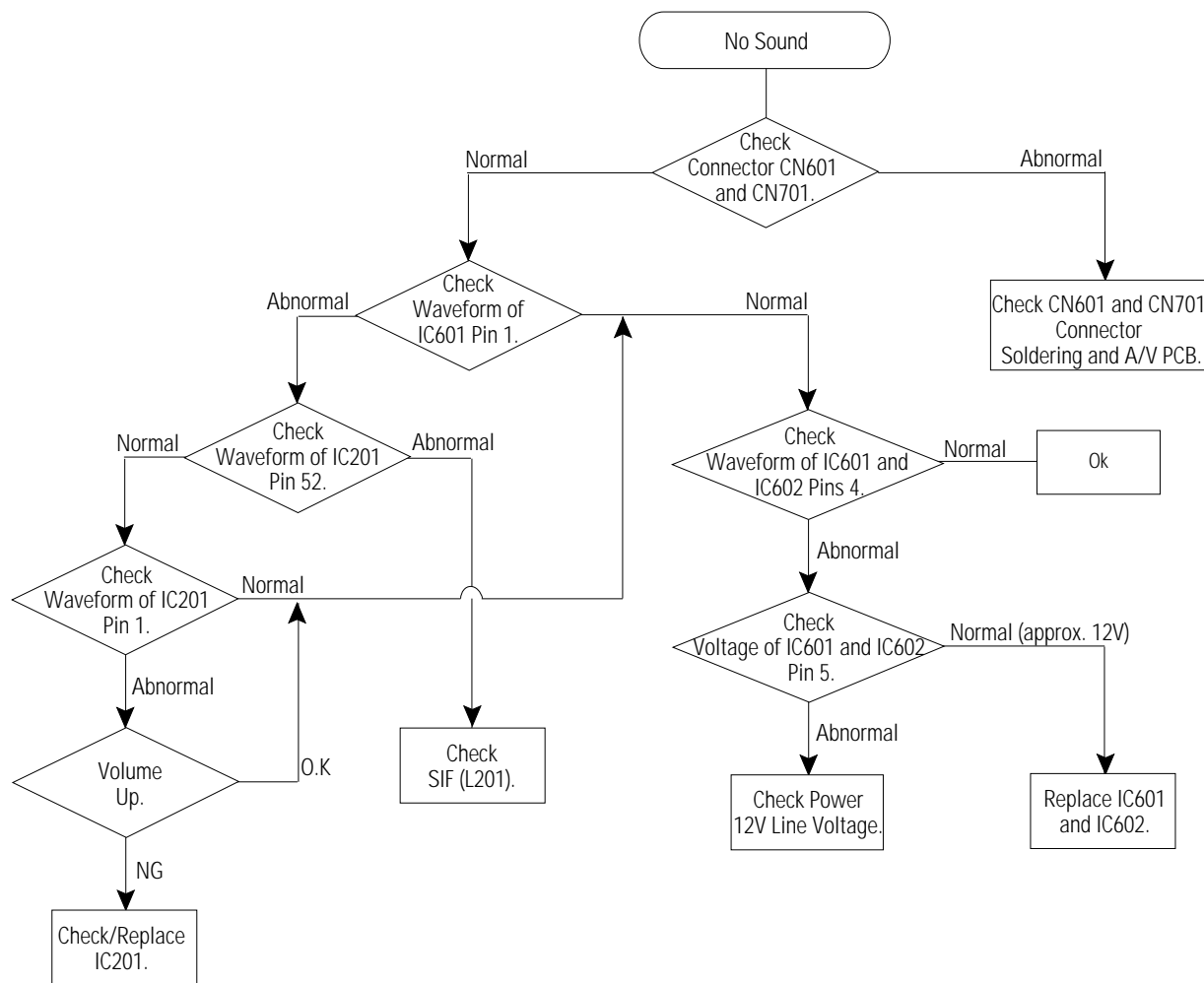
# MEMO

## 5. Troubleshooting

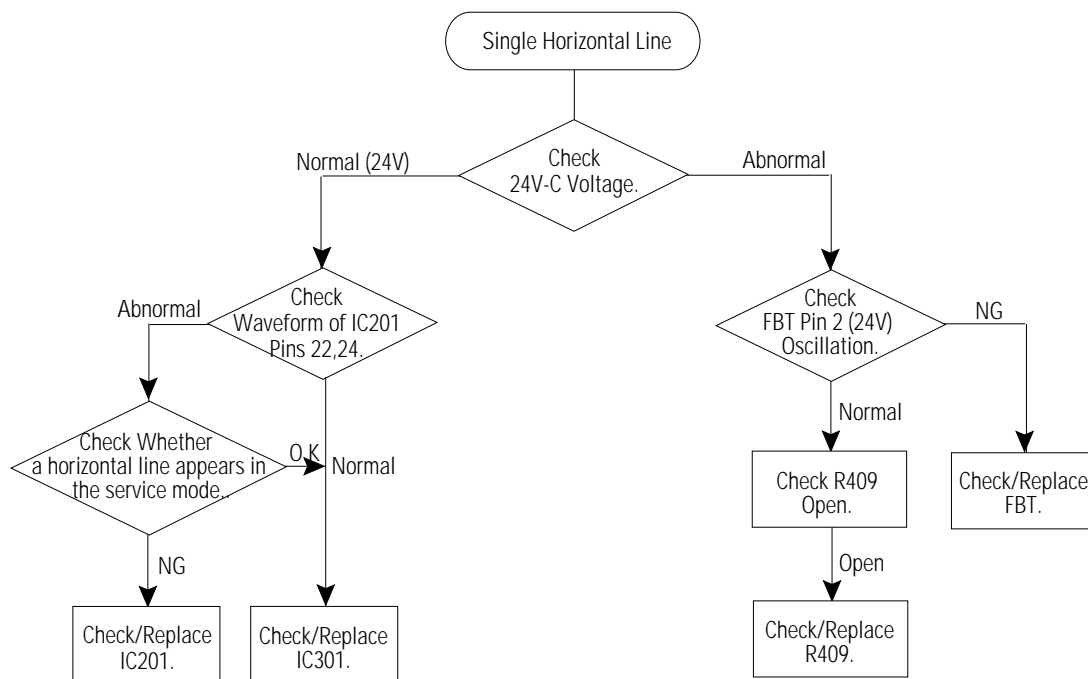
### 5-1 No Power



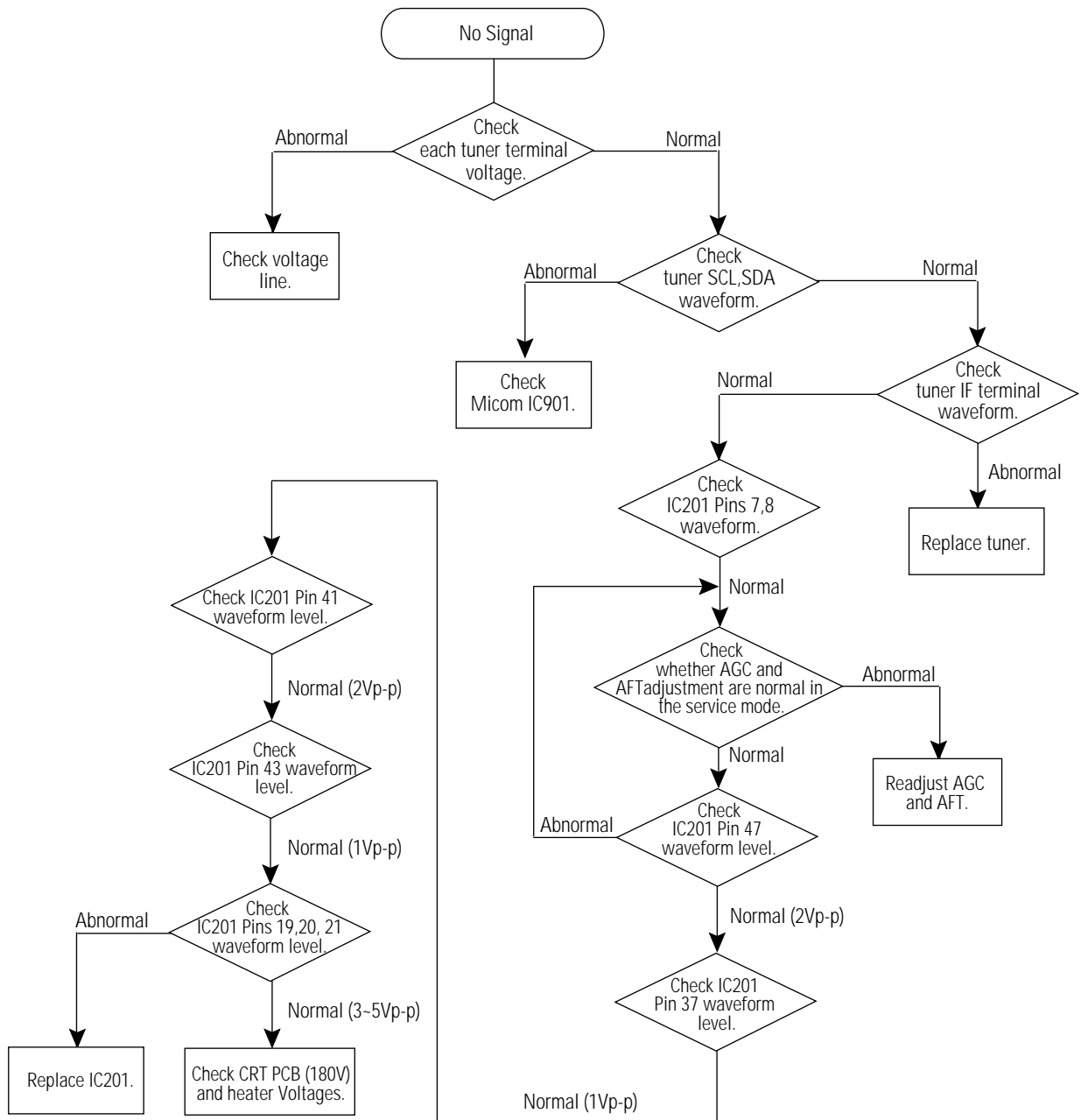
## 5-2 No Sound



## 5-3 Horizontal Line Appears

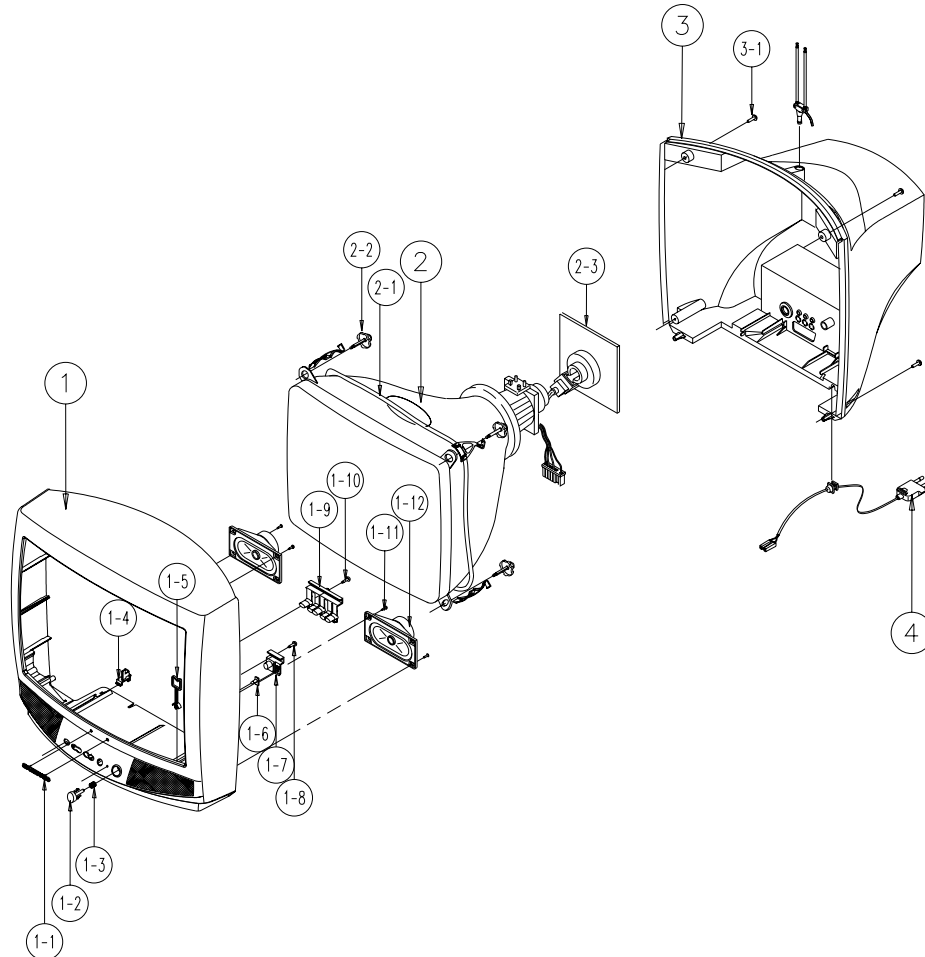


## 5-4 No Signal



## 6. Exploded Views & Parts List

### 6-1 CM19001X/KMT



No	Code No	Description;Specification	Q'ty	Remark
1	AA92-30161J AA64-00150B	ASSY-CABINET,FRONT;CM19001X,20F2R1-HIPS CABINET-FRONT;-20R1,BK708P EGH,HIPS,VO,	1 1	A/FRNT F/C
1-1		BADGE BRAND	1	BADGE
1-2		KNOB POWER	1	KP
1-3		SPRING-CS	1	SPRING
1-4	AA61-40113A	STOPPER-PCB;-ABS,HB,NTR.	1	STOPER
1-5	AA65-30018A	CLAMP-WIRE;-NYLON6.6,-,DATL	1	CLW/HS
1-6		INDICATOR-LED	1	IL
1-7		WINDOW REMOCON	1	WR
1-8		SCREW-TAPTITE	1	WR+CF
1-9		KNOB-CONTROL	1	KC
1-10		SCREW-TAPTITE	1	KC+CF
1-11	6002-000512	SCREW-TAPPING;RH,+,2,M4,L12,ZP	2	SPK+CF
1-12	AA96-10141A	ASSY-SPEAKER;3W,80HMX1,700	1	A/SPK
2	AA03-10029V	CRT-COLOR;A48KRD82X(H),+380MG,SEMI-TINT.	1	CRT
2-1	AA27-20004B	COIL-DEGAUSSING;-20,5.7ohm,30T,L2170,E	1	D-COIL
2-2	AA60-10050R	SCREW-ASSY;WC,HH,+,M5,L31.5,SWR	4	CRT+CF
2-3	3704-001090	SOCKET-CRT;9P,15.24PI,26.5PI,SN	1	V999
3	AA64-00154B	CABINET-BACK;-20F2 R1,-,HIPS,VO,BLK,-,-	1	B/C
3-1	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR	4	CB+CF
4	AA96-20129A	ASSY-POWER,CORD;-EP2/YES,H/C300,ME301P,	1	PWR/AC

# MEMO

# 7. Electric Parts List

## 7-1 CM19001X/KMT

Loc. No.	Code No.	Description ; Specification	Remark
		<b>ASSY-PCB,MAIN(COM)</b>	
1	A/MAIN AA94-10133T	ASSY-PCB,MAIN(COM);CM19001X/KMT	
2	A/SUBM AA97-01633A	ASSY-SUB MATERIAL;SOLVENTES Y SOLDADURAS	
3	0204-000442	SOLVENT;CH3-CH5H-CH396%IM-1000	
3	0202-000008	SOLDER-WIRE;S63S-D3.0,S63A,D3,63/37	
3	0204-001024	FLUX;DF-96TVS,-,20%,-	
3	0202-000187	SOLDER-WIREFLUX,-,RS60S,D1,2,6	
2	Q601 0502-000242	TR-POWER;KSA614,PNP,-80V,-55V,	
2	Q401 0502-001115	TR-POWER;KSC5386,NPN,50W,TO-3PF,ST,8	
2	PC802 0604-001038	PHOTOCOUPLER;TR,130-260%,200MW	
2	IC902 1103-001107	IC-EEPROM;24C020,256X8BIT,DIP;8P;300MIL	
△	IC802 1203-000576	IC-S/VREGU;TDA8139SIP7POUT-9.5	
2	IC201 1204-001259	IC-VIDEOSYSTEM;TA1282N,DIP;56P	
2	C804 2201-000446	C-CERAMIC,AC;CK45PE400V332-M(T	
2	C801 2401-000818	C-ELECTROLYTIC;CE04W200V220M	
2	X901* 2801-003224	CRYSTAL-UNIT;32.768KHZ,20PPM,2	
2	X202 2802-000172	RESONATOR-CERAMIC;503.5KHZ,0.5	
2	V999 3704-001090	SOCKET-CRT;9P,15.24PI,26.5PI,SN	
2	CN603 3711-002642	POST-HEADER;67094-003(AUTO)	
2	JA701 3722-000162	JACK-PIN;2P;3.4MM,-,SN	
2	IC901 AA13-30020A	IC-MCU,-,Z8933412PSC-R3757,16BIT,SDIP	
2	L205* AA26-10004C	TRANS-IF,-,7MG,VIF,0.37UH,7MM,	
2	L201 AA26-10004K	TRANS-IF,-,7MG,SIF,-,7MM,100PF	
2	T801 AA26-20007L	TRANS-SWITCHING;120V,125/12.5,UL/CSA,FAE	
△	T401 AA26-50001B	HORIZ.DRIVE,-,7.1MH,102UH,10-2	
2	L401 AA27-30001B	COIL-LINEARITY,-,195UH,QIC1010	
2	L801 AA29-30002F	FILTER-LINENOISE,-,6MH,2.45A,-	
2	CN501 AA39-20109A	LEAD-CONNECTOR,ASSY,-,YBNH025-	
2	TU01 AA40-00045A	TUNER-F/S;TECC1070PG32A(S),NTSC,TR,181CH	
2	RM901 AA32-00008A	MODULE REMOCON;SRV-19M,38KHZ,800,MESH,V,	
2	L/PQS AA68-01018A	LABEL-PQS,-,50mmX,13,-,WHITE,-	
2	T444 AA26-30001Y	TRANS-FRYBACK,-,FSV-20A001,20,125V	
△	IC601 AA96-50410B	ASSY-H/S;LA62-30191B,LA4425	
3	1201-001298	IC-POWER AMP;4425,SIP;5P,9.5MIL,MONO,45D	
3	6006-001035	SCREW-ASSY,MAC;WSP,PHL8ZPC, YEL	
3	AA62-30191B	HEAT-SINK,PS,-,SPC-1,T1.0,-,LA4425,-,FP-	
3	6021-000222	NUT-HEXAGON;2C,M3,ZPC(YEL),SM20C1	
△	IC801 AA96-50395A	ASSY-H/S,-,AA62-30190A,KA3S0765R,-	
3	1203-001493	IC-PEM CONTROLLER;3S0765RF,TO3PF-5L,5,21	
3	AA62-30190A	-,SECC-CA,T1.0,-,Cr03 A	
3	AA61-11028A	BRACKET-IC;SECC,T1.0,-,	
2	6003-000334	SCREW-TAPTITE;RH,+2S,M3,L6,ZP	
3	IC301 AA96-50075A	ASSY-H/S,-,VERT,AA62-30032A,KA2131	
3	1204-000475	IC;KA2131	
3	6003-000334	SCREW-TAPTITE;RH,+2S,M3,L6,ZP	
3	AA62-30032A	HEAT-SINK-PS/-,SPC-1,T1.0,-,FT-2V-	
△	PWR/AC AA96-20129A	ASSY-POWER,CORD,-,EP2/YES,H/C300,ME301P,	
3	AA39-10007Y	POWER-CORD,-,EP2/YES,SPT-2 18AWGX2C,2.4m	
3	AA61-20284A	HOLDER P CORD;PPVO,BLK,KE-002	
2	A/AUTO AA94-05248A	ASSY-PCB,MAIN(AUTO);K15A(C),19,S/V KMT	
3	D904 0401-000005	DIODE;1N4148,100V,300mA,-,1V,8nS,TAPING	
3	D903 0401-000005	DIODE;1N4148,100V,300mA,-,1V,8nS,TAPING	
△	D806 0401-000005	DIODE;1N4148,100V,300mA,-,1V,8nS,TAPING	
3	D601 0401-000005	DIODE;1N4148,100V,300mA,-,1V,8nS,TAPING	
3	D207 0401-000005	DIODE;1N4148,100V,300mA,-,1V,8nS,TAPING	
3	D202 0401-000005	DIODE;1N4148,100V,300mA,-,1V,8nS,TAPING	
3	D203 0401-000005	DIODE;1N4148,100V,300mA,-,1V,8nS,TAPING	
3	D204 0401-000005	DIODE;1N4148,100V,300mA,-,1V,8nS,TAPING	
3	D206 0401-000005	DIODE;1N4148,100V,300mA,-,1V,8nS,TAPING	
3	D901 0401-000005	DIODE;1N4148,100V,300mA,-,1V,8nS,TAPING	
3	DX02 0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41	
3	D402 0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41	
3	D401 0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41	
3	D208 0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41	
3	D103 0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41	
△	D810 0402-001111	DIODE-RECTIFIER;1N5397GP,600V,1.5A,DO-20	

Loc. No.	Code No.	Description ; Specification	Remark
△	3 D809	0402-001111 DIODE-RECTIFIER;1N5397GP,600V,1.5A,DO-20	
△	3 D808	0402-001111 DIODE-RECTIFIER;1N5397GP,600V,1.5A,DO-20	
△	3 D807	0402-001111 DIODE-RECTIFIER;1N5397GP,600V,1.5A,DO-20	
△	3 D805	0402-001111 DIODE-RECTIFIER;1N5397GP,600V,1.5A,DO-20	
△	3 D814	0402-000534 DIODE-RECTIFIER;RG10V,400V,1.5	
△	3 D802	0402-000540 DIODE-RECTIFIER;RU20A,600V,1.5	
△	3 D803	0402-001105 DIODE-RECTIFIER;ERB43-04SV1,40	
3	D405	0402-001105 DIODE-RECTIFIER;ERB43-04SV1,40	
3	D301	0402-001105 DIODE-RECTIFIER;ERB43-04SV1,40	
3	D403	0402-001105 DIODE-RECTIFIER;ERB43-04SV1,40	
3	D404	0402-001105 DIODE-RECTIFIER;ERB43-04SV1,40	
3	DZ806	0403-001318 DIODE-ZENER;MTZJ4.3B,4.17-4.43V,500mW,DO	
3	DZ903	0403-001319 DIODE-ZENER;MTZJ4.7C,4.68-4.93V,500mW,DO	
3	D205	0403-001319 DIODE-ZENER;MTZJ4.7C,4.68-4.93V,500mW,DO	
3	D906	0403-000508 DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
3	DZ803	0403-000508 DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
3	DZ901	0403-000508 DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
3	DZ902	0403-000508 DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
3	D905	0403-000508 DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
3	D102	0403-000508 DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
△	3 D855	0403-000508 DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
△	3 D856	0403-000508 DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
3	D902	0403-000508 DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
3	DZ807	0403-000510 DIODE-ZENER;MTZJ6.2B,6.2V,5.96-6.27V,500	
3	DX01	0403-000510 DIODE-ZENER;MTZJ6.2B,6.2V,5.96-6.27V,500	
3	DZ802	0403-001322 DIODE-ZENER;MTZJ8.2B,7.78-8.19V,500mW,DO	
3	D704	0403-000720 DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
3	D701	0403-000720 DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
3	D210	0403-000720 DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
3	D302	0403-001211 DIODE-ZENER;MTZJ12B,11.44-12.03V,500mW,DO	
3	D299	0403-001211 DIODE-ZENER;MTZJ12B,11.44-12.03V,500mW,DO	
△	3 D804	0403-001211 DIODE-ZENER;MTZJ12B,11.44-12.03V,500mW,DO	
3	D201	0403-001316 DIODE-ZENER;MTZJ3.0A,2.85-3.07V,500mW,DO	
3	D101	0403-000700 DIODE-ZENER;TZP33A,33V,31-35V,	
3	QX01	0501-000283 TRANSISTOR;KSA539-Y(TAPG)/YTAM	
3	Q402	0501-000369 TRANSISTOR;KSC2331-Y(TAPG)	
3	Q151	0501-000436 TR-SMALLSIGNAL;KTC3197,NPN,30V	
3	Q503	0501-002014 TR-SMALLSIGNAL;KSC2330-RNPN	
3	Q502	0501-002014 TR-SMALLSIGNAL;KSC2330-RNPN	
3	Q501	0501-002014 TR-SMALLSIGNAL;KSC2330-RNPN	
3	Q903	0501-002183 TR-SMALL SIG;KTC901A,NPN,625MW,TO-92,100	
3	Q602	0501-002183 TR-SMALL SIG;KTC901A,NPN,625MW,TO-92,100	
3	Q203	0501-002183 TR-SMALL SIG;KTC901A,NPN,625MW,TO-92,100	
3	Q202	0501-002183 TR-SMALL SIG;KTC901A,NPN,625MW,TO-92,100	
3	Q201	0501-002183 TR-SMALL SIG;KTC901A,NPN,625MW,TO-92,100	
3	QU01	0504-000123 TR-DIGITAL;KSR1010,NPN,300MW,1	
3	DZ801	1405-000152 VARISTOR;560V,2500A,14X8.5MM,T	
3	R302	2001-000003 R-CARBON;330OHM,5%,1/8W,AA,TP,	
3	R503	2001-000007 R-CARBON;3KOHM,5%,1/8W,AA,TP,1	
3	R502	2001-000007 R-CARBON;3KOHM,5%,1/8W,AA,TP,1	
3	R501	2001-000007 R-CARBON;3KOHM,5%,1/8W,AA,TP,1	
3	R159	2001-000007 R-CARBON;3KOHM,5%,1/8W,AA,TP,1	
3	R158	2001-000007 R-CARBON;3KOHM,5%,1/8W,AA,TP,1	
3	R926	2001-000008 R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
3	R822	2001-000022 R-CARBON(S);330OHM,5%,1/2W,AA,T	
3	R416	2001-000022 R-CARBON(S);330OHM,5%,1/2W,AA,T	
3	R702	2001-000085 R-CARBON(S);100KOHM,5%,1/2W,AA	
3	R242	2001-000221 R-CARBON;1.2KOHM,5%,1/8W,AA,TP	
3	R206	2001-000221 R-CARBON;1.2KOHM,5%,1/8W,AA,TP	
3	R205	2001-000221 R-CARBON;1.2KOHM,5%,1/8W,AA,TP	
3	R204	2001-000221 R-CARBON;1.2KOHM,5%,1/8W,AA,TP	
3	R152	2001-000221 R-CARBON;1.2KOHM,5%,1/8W,AA,TP	
3	R929	2001-000232 R-CARBON;1.3KOHM,5%,1/8W,AA,TP	
3	R908	2001-000232 R-CARBON;1.3KOHM,5%,1/8W,AA,TP	
3	R228	2001-000258 R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
3	R229	2001-000258 R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
3	R235	2001-000273 R-CARBON;100KOHM,5%,1/8W,AA,TP	
3	R509	2001-000281 R-CARBON;100OHM,5%,1/8W,AA,TP,	



Electric Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
3	R903	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,	3	R401	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
3	R904	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,	3	R223	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
3	R922	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,	3	R154	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm
3	R923	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,	3	R603	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,
3	R155	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,	3	R602	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,
3	R211	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,	3	R156	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1
3	R212	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,	3	R901	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1
3	R507	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,	3	RX08	2001-000837	R-CARBON;51KOHM,5%,1/8W,AA,TP,
3	R508	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,	3	R213	2001-000837	R-CARBON;51KOHM,5%,1/8W,AA,TP,
3	R930	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R907	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,
3	R932	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R910	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,
3	R933	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R853	2001-001054	R-CARBON(S);1.6KOHM,5%,1/2W,AB,TP,2.4X6.
3	R937	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	RU07	2001-001062	R-CARBON(S);10MOHM,5%,1/2W,AA,
3	R927	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R806	2001-001071	R-CARBON(S);12KOHM,5%,1/2W,AA,
3	R237	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R807	2001-001071	R-CARBON(S);12KOHM,5%,1/2W,AA,
3	R605	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R615	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4
3	R911	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R852	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4X6.4
3	R921	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R444	2001-001099	R-CARBON/METALFILM;RD1/2T2.7K-
3	R916	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R207	2001-001111	R-CARBON(S);240OHM,5%,1/2W,AA,
3	R917	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R403	2001-001114	R-CARBON(S);270OHM,5%,1/2W,AA,
3	R918	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,	3	R824	2001-001125	R-CARBON(S);300KOHM,5%,1/2W,AA,
3	R215	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,	3	R404	2001-001136	R-CARBON(S);360OHM,5%,1/2W,AA,T
3	R214	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,	3	R808	2001-001150	R-CARBON(S);470KOHM,5%,1/2W,AA,
3	RU06	2001-000397	R-CARBON;180KOHM,5%,1/8W,AA,TP	3	R801	2001-001150	R-CARBON(S);470KOHM,5%,1/2W,AA,
3	RX01	2001-000397	R-CARBON;180KOHM,5%,1/8W,AA,TP	3	R614	2001-001152	R-CARBON/METALFILM;RD1/2T47K-J
3	R234	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,	3	R823	2001-001178	R-CARBON(S);680OHM,5%,1/2W,AA,
3	RX02	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,	3	R701	2001-001187	R-CARBON(S);75OHM,5%,1/2W,AA,T
3	R931	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	R417	2001-001410	R-CARBON;RD1/2T(S)430-43R
3	R902	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	R515	2002-001006	R-COMPOSITION;4.7KOhm,5%,1/2W,AA,TP,3.7X
3	R611	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	RH01	2002-001006	R-COMPOSITION;4.7KOhm,5%,1/2W,AA,TP,3.7X
3	R301	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	RH02	2002-001006	R-COMPOSITION;4.7KOhm,5%,1/2W,AA,TP,3.7X
3	R241	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	RU01	2002-001010	R-COMPOSITION;1.8MOHM,5%,1/2W,AA,TP,3.7X
3	R201	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	R805	2002-001013	R-COMPOSITION;4.7MOhm,5%,1/2W,AA,TP,3.7X
3	R905	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	R304	2003-000436	R-METALOXIDE(S);1.5OHM,5%,1W,A
3	R938	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	R405	2003-000540	R-METALOXIDE(S);1KOHM,5%,2W,AD
3	R230	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	R504	2003-000784	R-METAL OXIDE(S);7.5KOHM,5%,2W,AF,TP,3.7
3	R925	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP	3	R504A	2003-000784	R-METAL OXIDE(S);7.5KOHM,5%,2W,AF,TP,3.7
3	R924	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP	3	R505	2003-000784	R-METAL OXIDE(S);7.5KOHM,5%,2W,AF,TP,3.7
3	R604	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP	3	R505A	2003-000784	R-METAL OXIDE(S);7.5KOHM,5%,2W,AF,TP,3.7
3	R952	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP	3	R506	2003-000784	R-METAL OXIDE(S);7.5KOHM,5%,2W,AF,TP,3.7
3	R906	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP	3	R506A	2003-000784	R-METAL OXIDE(S);7.5KOHM,5%,2W,AF,TP,3.7
3	R227	2001-000508	R-CARBON;220KOHM,5%,1/8W,AA,TP	3	R407	2003-000994	R-METALOXIDE(S);33KOHM,5%,2W,AF,TP,3.9X1
3	R226	2001-000508	R-CARBON;220KOHM,5%,1/8W,AA,TP	3	R309	2003-001043	R-METALOXIDE(S);510OHM,5%,1W,A
3	R988	2001-000508	R-CARBON;220KOHM,5%,1/8W,AA,TP	3	R802	2003-002119	R-METAL OXIDE(S);36KOHM,5%,1W,AF,TP,2.5X
3	R402	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	3	R928	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm
3	R210	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	3	RU10	2001-000924	R-CARBON;680ohm,5%,1/8W,AA,TP,1.8x3.2mm
3	R209	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	3	R305	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP
3	R208	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,	3	R239	2001-000947	R-CARBON;7.5KOHM,5%,1/8W,AA,TP
3	RX05	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,	3	R233	2001-000011	R-CARBON;75Kohm,5%,1/8W,AA,TP,1.8x3.2mm
3	R920	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,	3	R919	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m
3	R236	2001-000548	R-CARBON;270KOHM,5%,1/8W,AA,TP	3	R102	2001-001000	R-CARBON ;82Kohm,5%,1/8W,AA,TP,1.8x3.2mm
3	R157	2001-000568	R-CARBON;270HM,5%,1/8W,AA,TP,1	3	R411	2004-001373	R-METAL, FILM;RM1/2T100K-F
3	R914	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1	3	R412	2004-001373	R-METAL, FILM;RM1/2T100K-F
3	R610	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1	3	RX04	2004-001376	R-METAL(S);11KOHM,1%,1/2W,AA,T
3	R240	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1	3	R408	2004-001390	R-METAL(S);1KOHM,2%,1/2W,AA,TP
3	R253	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP	3	R854	2004-001983	R-METAL;2.49KOHM,1%,1/2W,AA,TP,2.4X6.4
3	R252	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP	3	RX03	2004-001987	R-METAL;4.3KOHM,1%,1/2W,AA,TP,
3	R251	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP	3	R303	2001-000908	R-CARBON ;62Kohm,5%,1/8W,AA,TP,1.8x3.2mm
3	R218	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP	3	R308	2001-000908	R-CARBON ;62Kohm,5%,1/8W,AA,TP,1.8x3.2mm
3	R512	2001-000628	R-CARBON;300OHM,5%,1/8W,AA,TP,	3	R821	2004-004089	R-METAL;123KOHM,1%,1/2W,AA,TP,2.5X6.5
3	R511	2001-000628	R-CARBON;300OHM,5%,1/8W,AA,TP,	3	R809	2008-000205	R-FUSIBLE(S);10OHM,5%,1/2W,AF,
3	R510	2001-000628	R-CARBON;300OHM,5%,1/8W,AA,TP,	3	R410	2008-000206	R-FUSIBLE(S);10HM,5%,1/2W,AF,T
3	R231	2001-000660	R-CARBON;33KOHM,5%,1/8W,AA,TP,	3	R812	2008-000252	R-FUSIBLE(S);0.47OHM,10%,1/2W,
3	R517	2001-000666	R-CARBON;33OHM,5%,1/8W,AA,TP,1	3	R257	2008-000252	R-FUSIBLE(S);0.47OHM,10%,1/2W,
3	R514	2001-000666	R-CARBON;33OHM,5%,1/8W,AA,TP,1	3	R409	2008-000253	R-FUSIBLE(S);0.47OHM,5%,1W,AF,
3	R513	2001-000666	R-CARBON;33OHM,5%,1/8W,AA,TP,1	3	R518	2008-000266	R-FUSIBLE(S);10HM,5%,2W,AF,TP,
3	R219	2001-000674	R-CARBON;360OHM,5%,1/8W,AA,TP,	3	R819	2008-001011	R-FUSIBLE(S);0.18OHM,10%,2W,AF
3	R940	2001-000708	R-CARBON;390HM,5%,1/8W,AA,TP,1.8X3.4MM	3	C802	2201-000119	C-CERAMIC,DISC;100NF,+80-20%,50V,5MM,TAP
3	R951	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	3	C907	2201-000119	C-CERAMIC,DISC;100NF,+80-20%,50V,5MM,TAP
3	R915	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	3	C908	2201-000193	C-CERAMIC,DISC;10PF,0.25PF,50V
3	R703	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	3	C213	2201-000193	C-CERAMIC,DISC;10PF,0.25PF,50V
3	R203	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	3	C201	2201-000292	C-CERAMIC,DISC;1NF,10%,50V,Y5P
3	R202	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	3	C216	2201-000354	C-CERAMIC,DISC;20PF,5%,50V,NPO
3	R153	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP	3	C823	2201-000370	C-CERAMIC,DISC;220PF,10%,50V,Y5P,TP
3	R306	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,	3	C444	2201-000441	C-CERAMIC,DISC;3.3nF,10%,500V,Y5P,TP,10x
3	R222	2001-000773	R-CARBON;470KOHM,5%,1/8W,AA,TP	3	C445	2201-000441	C-CERAMIC,DISC;3.3nF,10%,500V,Y5P,TP,10x
3	RU02	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	3	CX04	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
3	C411	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,	3	C102	2401-000660	C-ELECTROLYTIC;CE04WTAPG50V2.2
3	C408	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,	3	C110	2401-002594	C-AL;220uF,20%,16V,GP,TP,8x11.5,5
3	C406	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,	3	C412	2401-000927	C-AL;22UF,20%,250V,GP,13X20MM,
3	C302	2201-000556	C-CERAMIC,DISC;470PF,10%,500V,	3	C914A	2401-000962	C-AL;22uF,20%,50V,GP,TP,5x11,5
3	C909	2201-000573	C-CERAMIC,DISC;47PF,5%,50V,NPO	3	C601	2401-000962	C-AL;22uF,20%,50V,GP,TP,5x11,5
3	C807	2201-000599	C-CERAMIC,DISC;560PF,10%,500V,	3	C905	2401-001333	C-ELECTROLYTIC;CE04WTAPG50V0.4
3	C212	2201-000982	C-CERAMIC,DISC;10NF,+80-20%,50	3	C311	2401-001333	C-ELECTROLYTIC;CE04WTAPG50V0.4
3	C805	2201-000991	C-CERAMIC,HIC;CK45(T)B2KV561-K	3	C207	2401-001333	C-ELECTROLYTIC;CE04WTAPG50V0.4
3	C403	2201-000991	C-CERAMIC,HIC;CK45(T)B2KV561-K	3	C205	2401-001333	C-ELECTROLYTIC;CE04WTAPG50V0.4
3	C236	2202-000127	C-CERAMIC,MLC-AXIAL;10NF,+80-2	3	C202	2401-001333	C-ELECTROLYTIC;CE04WTAPG50V0.4
3	C303	2202-000127	C-CERAMIC,MLC-AXIAL;10NF,+80-2	3	C654	2401-002463	C-ELECTROLYTIC;CE04WTAPG16V470M-M(SG)-VE
3	C915	2202-000127	C-CERAMIC,MLC-AXIAL;10NF,+80-2	3	C407	2401-001429	C-ELECTROLYTIC;CE04WTAPG50V470
3	CX01	2202-000127	C-CERAMIC,MLC-AXIAL;10NF,+80-2	3	C821	2401-001486	C-AL;47UF,20%,160V,HR,13X20MM,5MM,T
3	C229	2202-000127	C-CERAMIC,MLC-AXIAL;10NF,+80-2	3	C901	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5
3	C101	2202-000127	C-CERAMIC,MLC-AXIAL;10NF,+80-2	3	C813	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5
3	C104	2202-000127	C-CERAMIC,MLC-AXIAL;10NF,+80-2	3	C232	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5
3	C151	2202-000127	C-CERAMIC,MLC-AXIAL;10NF,+80-2	3	C231	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5
3	C153	2202-000127	C-CERAMIC,MLC-AXIAL;10NF,+80-2	3	C203	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5
3	C237	2202-000791	C-CERAMIC,MLC-AXIAL;150pF,10%,50V,Y5P,TP	3	CU03	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5
3	C705	2202-000183	C-CERAMIC;CKOAX7R16VT222-MEP05	3	C851	2401-001585	C-AL;47uF,20%,50V,WT,8*11.5mm,5mm,T
3	C703	2202-000183	C-CERAMIC;CKOAX7R16VT222-MEP05	3	C817	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1
3	C612	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50	3	C812	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1
3	C611	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50	3	C215	2401-001840	C-AL;100UF,20%,16V,GP,TP,6.3X1
3	C235	2202-000279	C-CERAMIC,MLC-AXIAL;47PF,5%,50	3	C809	2401-001998	C-AL;1000UF,20%,25V,GP,TP,10X20
3	C904	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50	3	C820	2401-001998	C-AL;1000UF,20%,25V,GP,TP,10X20
3	C902	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50	3	C409	2401-001998	C-AL;1000UF,20%,25V,GP,TP,10X20
3	C501	2202-000863	C-CERAMIC;CKOAX7R50VT561-KUP050561	3	C306	2401-002458	C-AL;1000UF,20%,35V,GP,16X25MM
3	C503	2202-000825	C-CERAMIC,MLC-AXIAL;680PF,10%,50V,Y5P,TP	3	C221	2401-002462	C-ELECTROLYTIC;CE04WTAPG16V33M
3	C502	2202-000862	C-CERAMIC;CCOASL50VT391-JUP050	3	L206	2701-000111	INDUCTOR-AXIAL;100UH,10%,2.5X3
3	C218	2301-000395	C-FILM,PEF;18NF,5%,50V,TP,6.5x12.5x3.5mm	3	L208	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3
3	C204	2301-000188	C-FILM,PEF;1NF,5%,100V,10.5X12	3	L902	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3
3	C822	2301-000192	C-FILM,PEF;1NF,5%,50V,5.3X10MM	3	L999	2701-000115	INDUCTOR-AXIAL;10UH,10%,2.8X7M
3	C808	2301-000016	C-FILMPEF;22NF,5%,100V,TP,7.2X	3	L301	2701-000116	INDUCTOR-AXIAL;10UH,10%,4.2X9
3	C301	2301-000016	C-FILMPEF;22NF,5%,100V,TP,7.2X	3	L602	2701-000158	INDUCTOR-AXIAL;22UH,10%,2.5X3
3	C401	2301-000224	C-FILM,PEF;22NF,5%,50V,7.4X3.9	3	L203	2701-000158	INDUCTOR-AXIAL;22UH,10%,2.5X3
3	C410	2301-000224	C-FILM,PEF;22NF,5%,50V,7.4X3.9	3	L503	2701-000184	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM
3	C234	2301-000445	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	3	L502	2701-000184	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM
3	C603	2301-000289	C-FILM,PEF;5.6NF,5%,50V,6.5X5	3	L501	2701-000184	INDUCTOR-AXIAL;4.7UH,10%,2.5X3.4MM
3	C912	2301-000310	C-FILM,PEF;68NF,5%,50V,8.0X8.5	3	L901	2701-000197	INDUCTOR-AXIAL;5.6UH,10%,2.5X3
3	C852	2301-000310	C-FILM,PEF;68NF,5%,50V,8.0X8.5	3	L204	2701-000207	INDUCTOR-AXIAL;56UH,5%,2.5X3.4
3	C308	2301-000310	C-FILM,PEF;68NF,5%,50V,8.0X8.5	3	L202	2701-000207	INDUCTOR-AXIAL;56UH,5%,2.5X3.4
3	C305	2301-000310	C-FILM,PEF;68NF,5%,50V,8.0X8.5	3	L102	2701-000207	INDUCTOR-AXIAL;56UH,5%,2.5X3.4
3	C803	2301-001397	C-FILM,PPF;2.2nF,5%,1.2kV,TP,15x8.5x13.5	3	L152	2701-000202	INDUCTOR-AXIAL;560NH,10%,2.5X3
3	C313	2305-000470	C-FILM,MPEF;68NF,5%,100V,-,5MM	3	L402	2701-001032	INDUCTOR-AXIAL;100UH,10%,5X14MM
3	C230	2305-000665	C-FILM;104J, 60V,5MM TAPING	3	L810	2701-001032	INDUCTOR-AXIAL;100UH,10%,5X14MM
3	C605	2305-000665	C-FILM;104J, 60V,5MM TAPING	3	X201	2801-000226	CRYSTAL-UNIT;3.579545MHZ,20PPM
3	C701	2305-000665	C-FILM;104J, 60V,5MM TAPING	3	L803	2901-000297	FILTER-EMI ON BOARD;-3A,-,-3.5x5,TP,-
3	CU02	2305-000665	C-FILM;104J, 60V,5MM TAPING	3	L811	2901-000299	FILTER-EMIBEAD;BL02RN2-R65T2DB
3	C209	2305-000665	C-FILM;104J, 60V,5MM TAPING	3	Z601	2903-000135	FILTER-CERAMIC;BP,4.5MHZ
3	C210	2305-000665	C-FILM;104J, 60V,5MM TAPING	3	Z201	2903-001022	FILTER-CERAMIC;TR,4.5MHZ
3	C211	2305-000665	C-FILM;104J, 60V,5MM TAPING	3	L802	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6
3	C222	2305-000665	C-FILM;104J, 60V,5MM TAPING	3	L804	3301-000287	CORE-FERRITEBEAD;AA,3.5X1.0X6
3	C227	2305-000665	C-FILM;104J, 60V,5MM TAPING	3	SW905	3404-000244	SWITCH-TACT;15V,20MA,90-170GF,
3	C405	2305-000704	C-M,POLYESTER;CFS922MTAPG250V1	3	SW904	3404-000244	SWITCH-TACT;15V,20MA,90-170GF,
3	C206	2305-001011	C-FILM,MPEF;22NF,5%,100V,3.5X12.5X7.5MM,	3	SW903	3404-000244	SWITCH-TACT;15V,20MA,90-170GF,
3	C404	2306-000193	C-FILM,MPPF;360NF,5%,200V,-,7	3	SW902	3404-000244	SWITCH-TACT;15V,20MA,90-170GF,
3	C609	2401-000133	C-AL;1000UF,20%,16V,GP,13X20MM	3	SW901	3404-000244	SWITCH-TACT;15V,20MA,90-170GF,
3	C806	2401-000262	C-AL;100UF,20%,160V,GP,16X25MM,5MM,	3	F801B	3602-000114	FUSE-HOLDER;-,-,30MOHM
3	C309	2401-000360	C-AL;100UF,20%,50V,GP,8X11MM,5	3	F801A	3602-000114	FUSE-HOLDER;-,-,30MOHM
3	C702	2401-000471	C-AL;10UF,20%,50V,BP,6X11MM,5M	3	J155	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C816	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	3	J159	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C903	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	3	J199	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C911	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	3	J203	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	CX02	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	3	J152	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	CX03	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	3	J151	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C108	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	3	J150	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C220	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	3	J149	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C225	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	3	J503	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C233	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	3	J502	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C310	2401-000480	C-AL;10UF,20%,50V,GP,5X11MM,5M	3	J501	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C312	2401-000553	C-AL;1UF,10%,50V,GP,5X11MM,5MM	3	J450	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C304	2401-000553	C-AL;1UF,10%,50V,GP,5X11MM,5MM	3	J445	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C226	2401-000603	C-AL;1UF,20%,50V,GP,5X11MM,5MM	3	J206	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C219	2401-000603	C-AL;1UF,20%,50V,GP,5X11MM,5MM	3	J204	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C651	2401-000660	C-ELECTROLYTIC;CE04WTAPG50V2.2	3	J123	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C604	2401-000660	C-ELECTROLYTIC;CE04WTAPG50V2.2	3	J120	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A
3	C214	2401-000660	C-ELECTROLYTIC;CE04WTAPG50V2.2	3	J118	3812-000219	WIRE-SO,COPPER;TA0.6SN/52M/M/A



Loc. No.	Code No.	Description ; Specification	Remark
3	R811	2001-001170	R-CARBON(S);6.80HM,5%,1/2W,AB,
3	R813	2008-001058	R-FUSIBLE(S);0.180HM,10%,1W,AF
3	C810	2305-000412	C-FILM,MPEF;470NF,5%,63V,-,5MM
3	Q801	1203-001217	IC-POST,ADJUSTREG;431,T0-92,3P,4.58MIL,P
3	R307	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm
3	L/LINE	AA68-01544A	LABEL;LINE,ALL MDL COMMON
3	C505	2201-000723	C-CERAMIC,DISC;4.7nF,20%,3KV,Y5U,TP,16x5
3	R816	2001-001134	R-CARBON(S);3600HM,5%,1/2W,AA,TP,2.4X6.4
3	R817	2001-001134	R-CARBON(S);3600HM,5%,1/2W,AA,TP,2.4X6.4
3	R818	2001-001134	R-CARBON(S);3600HM,5%,1/2W,AA,TP,2.4X6.4
3	R406	2003-001024	R-METALOXIDE(S);1500HM,5%,2W,A
3	R406A	2003-001024	R-METALOXIDE(S);1500HM,5%,2W,A
3	R104	2003-000592	R-METALOXIDE(S);220HM,5%,2W,AD
3	R105	2003-000592	R-METALOXIDE(S);220HM,5%,2W,AD
3	R106	2003-000664	R-METAL OXIDE(S);330HM,5%,2W,AF,TP,4X12M
3	R107	2003-000664	R-METAL OXIDE(S);330HM,5%,2W,AF,TP,4X12M
3	R101	2001-000812	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2mm
3	R814	2001-001135	R-CARBON(S);36KOHM,5%,1/2W,AA,
3	R815	2004-001408	R-METAL(S);91KOHM,1%,1/2W,AA,T
3	C815	2401-000223	C-AL;100NF,20%,50V,LL,5X11MM,5MM,TP
3	R803	2003-002008	R-METAL OXIDE(S);18KOHM,5%,2W,AF,TP,3.9X
3	R804	0403-001330	DIODE-ZENER;MTZJ30A,26.99-28.39V,500mW,D
3	Q902	0501-000389	TRANSISTOR;KSC815-Y(TAPG)/YTAM
3	J096	2001-000019	R-CARBON(S);10ohm,5%,1/2W,AA,TP,2.4x6.4mm
3	C910	2201-000558	C-CERAMIC,DISC;470PF,10%,50V,Y
3	RU03	2001-000832	R-CARBON;5100HM,5%,1/8W,AA,TP,
3	C906	2201-000863	C-CERAMIC,DISC;680PF,10%,50V,Y
2	F801	3601-000144	FUSE-FERRULE;125V,4A,SLOWBLOW,
2	C402	2306-000255	C-FILM;CF922P1.6KV742-HBUP
2	SF101	2904-001241	FILTER-SAWAW;M1871M45.75MHz,SIP5K,14.4dB
2	SW906	3404-000295	SW-TACT,V;KPT1122R1KEYSTT=0.3M
2	P801	1404-001156	THERMISTOR-PTC;90HM,+30%/-20%,220VRMS,27
2	NT801	1404-001045	THERMISTOR NTC;4.70HM,15%,2900K,35.0MMW,T
2	C814	2306-000212	C-FILM,MPPF;470NF,20%,250V,-,22.5MM,BK
2	H-COVE	AA64-01355B	INLAY-COVER;K15A,PVC SHEET V0,T0.4,-,BLK
2	R599	2008-001093	R-FUSIBLE(S);220HM,5%,1/2W,AC,BK,2.5X6.5
2	JU96	2901-000297	FILTER-EMI ON BOARD;-.3A,-,-.3.5x5,TP,-

## ASSY-CABINET,(COM)

1	A/BACK	AA92-10046G	ASSY-CABINET,(COM);CM19001X/KMT
2	CB+CF	6003-001026	SCREW-TAPTITE;RH,+ ,B,M4,L15,ZPC(BLK),SWR
2	STAPLE	AA60-40006A	PIN-STAPLE;-,-,H18,33X17.8X2
2	C/RIG	AA69-00155A	CUSHION-RIGHT;EPS,FOAMED,C=0.02,20F2
2	C/LEFT	AA69-00155B	CUSHION-LEFT;EPS,FOAMED,C=0.02,20F2
2	PE-BAG	AA69-01208A	BAG;SHEET,19-20,W42,L50,FOAM,OEM
2	AC-TAP	0203-001279	TAPE-OPP MASKING;#232,T0.14,W15,L50000,Y
2	TAPE-D	0203-001279	TAPE-OPP MASKING;#232,T0.14,W15,L50000,Y
2	BXTAPE	0203-001295	TAPE-OPP MASKING;1242,T0.06,W100,L91.4M,
2	B/C	AA64-00154B	CABINET-BACK;- ,20F2 R1,-,HIPS,VO,BLK,-,-
2	PCK	AA69-01172A	PACKING CASE;CM19001,CBSW,KRFT-LNR,275,K
2	L/RAT	AA68-00373A	LABEL-RATING;ART-PAPER,CM19001,K-MART,W
2	AC+BC	AA65-30008A	CLAMP-CORD;- ,PE,HB,BLK,-,-
2	CLW/HS	AA65-30018A	CLAMP-WIRE;- ,NYLON6.6,-,-,DATL

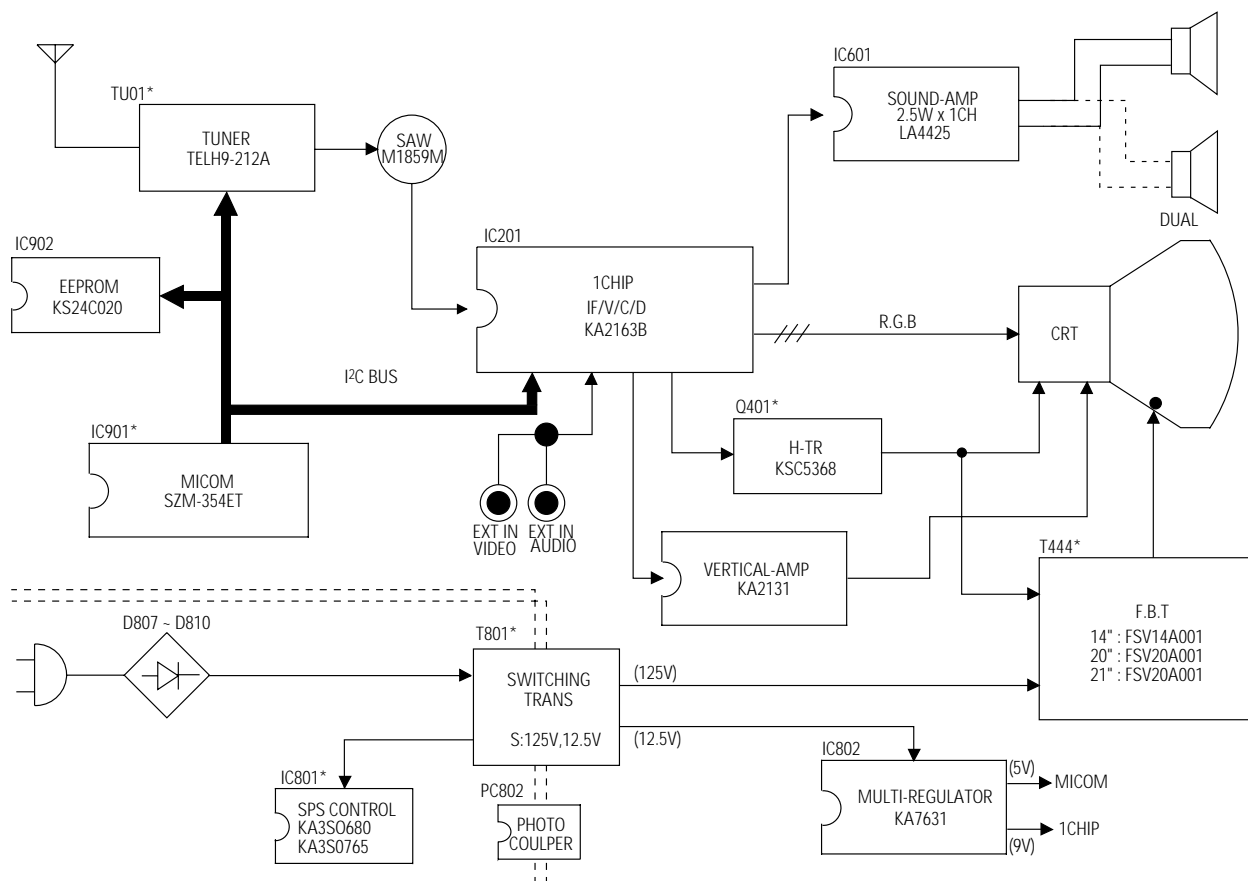
## ASSY-CABINET,FRONT

1	A/FRNT	AA92-30161J	ASSY-CABINET,FRONT;CM19001X,20F2R1-HIPS
2	SPK+CF	6002-000512	SCREW-TAPPING;RH,+ ,2,M4,L12,ZP
2	STOPER	AA61-40113A	STOPPER-PCB;- ,ABS,HB,NTR
2	A/SPK	AA96-10141A	ASSY-SPEAKER;3W,80HMx1,700
3	SPK	3001-001020	SPEAKER;3W,8ohm,90dB,140Hz
3	L/SPK	AA39-20501C	LEAD CONNECTOR-ASSY;- ,67096-003,REC,3(2)
2	D-COIL	AA27-20004B	COIL-DEGAUSSING;- ,20.5.7ohm,30T,L2170,E
2	F/C	AA64-00150B	CABINET-FRONT;- ,20R1,BK708P EGH,HIPS,VO,
2	CRT+CF	AA60-10050R	SCREW-ASSY;WC,HH,+M5,L31.5,SWR
2	CDCOIL	AA61-00734A	HOLDER;25POLYVINYL,DEGAUSSING,CHLORI
2	CWIRFC	AA65-30105A	CLAMP-WIRE;NYLON 66N,VO,NTR,15MM
2	S/CRT	AA60-00038A	SPACER-CRT;PS,SHEET,T1.0,BLK,OD22,ID10.

Loc. No.	Code No.	Description ; Specification	Remark
<b>ASSY-LABEL</b>			
1	A/LABL	AA90-01002A	ASSY-LABEL;K-MART,K15A,19,USA
2	BOX	AA68-01542A	LABEL;(UNIBOX),PAPER WHT ALLMD
2	L/RAT	AA68-00373A	LABEL-RATING;ART-PAPER,CM19001,K-MART,W
2	L/QMS	AA68-01554A	LABEL;QMS,UARCOWHITEPAPER#1343
2	L/WARN	AA68-01618A	LABEL-WARNING;WHTPAPER100
2	L/IND	AA68-00524A	LABEL-INDICATOR;A/P 90(G),CXJ1352X/XAA,U
2	L/SET	AA68-01568A	LABEL;SET,A48KRD82X,SAMS.23-28KV
<b>ASSY-CRT</b>			
△ 1	A/CRTP	AA94-50014M	ASSY-CRT;A48KRD82X(H),+380MG ,20
2	CRT	AA03-10029W	CRT-COLOR;A48KRD82X(H),+380MG,SEMI-TINT.
2	D-Y	AA27-50004W	DEFL-YOKE;- ,DSE-1992LL(1H),20'/A48KRD82X
2	C-Y	AA27-00002A	MAGNET-CONVERGENCE;JH291-SC-OB,29.1M
2	SPACER	AA63-60028A	SPACER-DY;- ,NEOPRENE , ,BLK,V0W
2	TAPE	0203-000432	TAPE-ACETATE;ACETATETO.25W19WH
<b>ASSY-TBC,WIRE</b>			
1	A/TBC	AA98-70014B	ASSY-TBC,WIRE;20,NTSC,1P
<b>ASSY-ACCESSORY</b>			
1	A/ACCS	AA97-20009P	ASSY-ACCESSORY;CM19001X/KMT
2	PE-BAG	AA69-01195A	BAG PE;CL29A6W8X,HDPETO.012,93/4X151
2	I/B	AA68-00282A	MANUAL-USERS;K15B,ENG,-,FOLDING,W/P 100G
<b>REMOCON</b>			
1	RMT	AA59-00066A	REMOCON;- ,TM52,SZM354EP,25,L/GRAY,E/X,

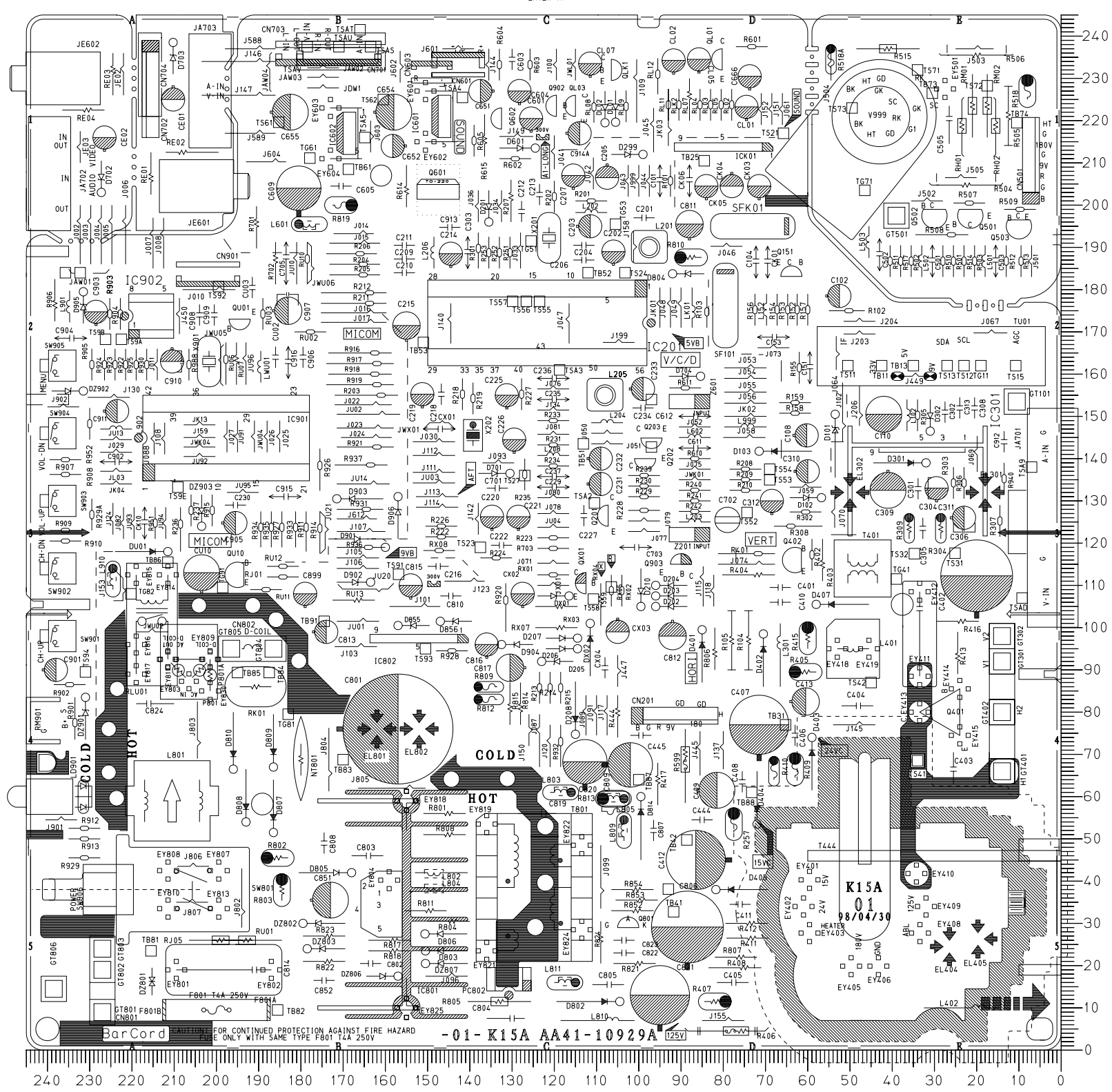
# MEMO

# 8. Block Diagram



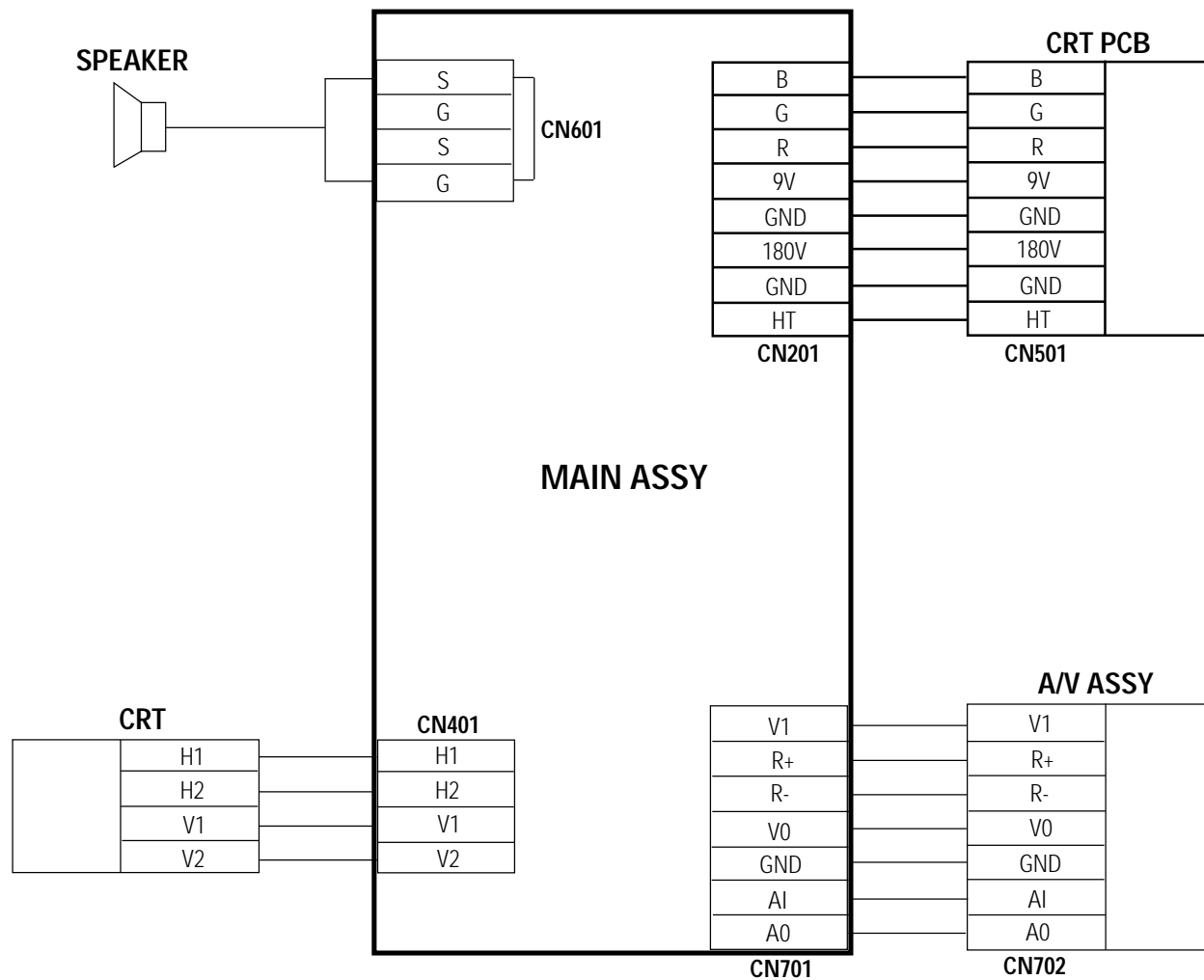
# 9. PCB Layout

## 9-1 PCB-MAIN



Loc. No.	X	Y	Loc. No.	X	Y
<b>DIODE</b>			<b>IC</b>		
D101	53	150	IC201	100	164
D102	56	130	IC301	50	132
D103	71	141	IC601	146	225
D201	135	196	IC602	168	221
D202	96	105	IC801	155	10
D203	96	107	IC802	141	97
D204	96	110	IC901	215	153
D205	123	92	IC902	219	178
D206	114	95	ICK01	69	213
D207	114	97	<b>TRANSISTOR</b>		
D208	115	74	Q151	61	183
D210	99	105	Q201	107	129
D299	99	212	Q202	101	140
D301	32	139	Q203	99	144
D302	31	146	Q401	24	85
D401	85	99	Q402	63	118
D402	70	98	Q501	24	197
D403	59	74	Q502	32	197
D404	72	53	Q503	12	195
D405	81	38	Q601	145	203
D407	58	105	Q602	132	223
D601	124	213	Q801	100	29
D701	130	136	Q902	119	226
D702	227	203	Q903	87	115
D703	210	238	QL01	80	237
D704	85	159	QL03	115	226
D802	104	11	QLK1	106	229
D803	150	23	QU01	197	173
D804	92	183	QU10	195	115
D805	168	42	QX01	112	113
D806	150	27			
D807	186	51			
D808	193	54			
D809	186	67			
D810	196	66			
D814	99	60			
D855	157	100			
D856	147	101			
D901	160	119			
D902	163	110			
D903	171	130			
D904	132	96			
D905	231	179			
D906	157	131			
DL01	105	219			
DL02	108	219			
DU01	211	118			
DX01	116	107			
DX02	111	101			
DZ801	215	20			
DZ802	179	30			
DZ803	178	24			
DZ806	157	17			
DZ807	150	20			
DZ901	231	83			
DZ902	231	156			
DZ903	203	124			

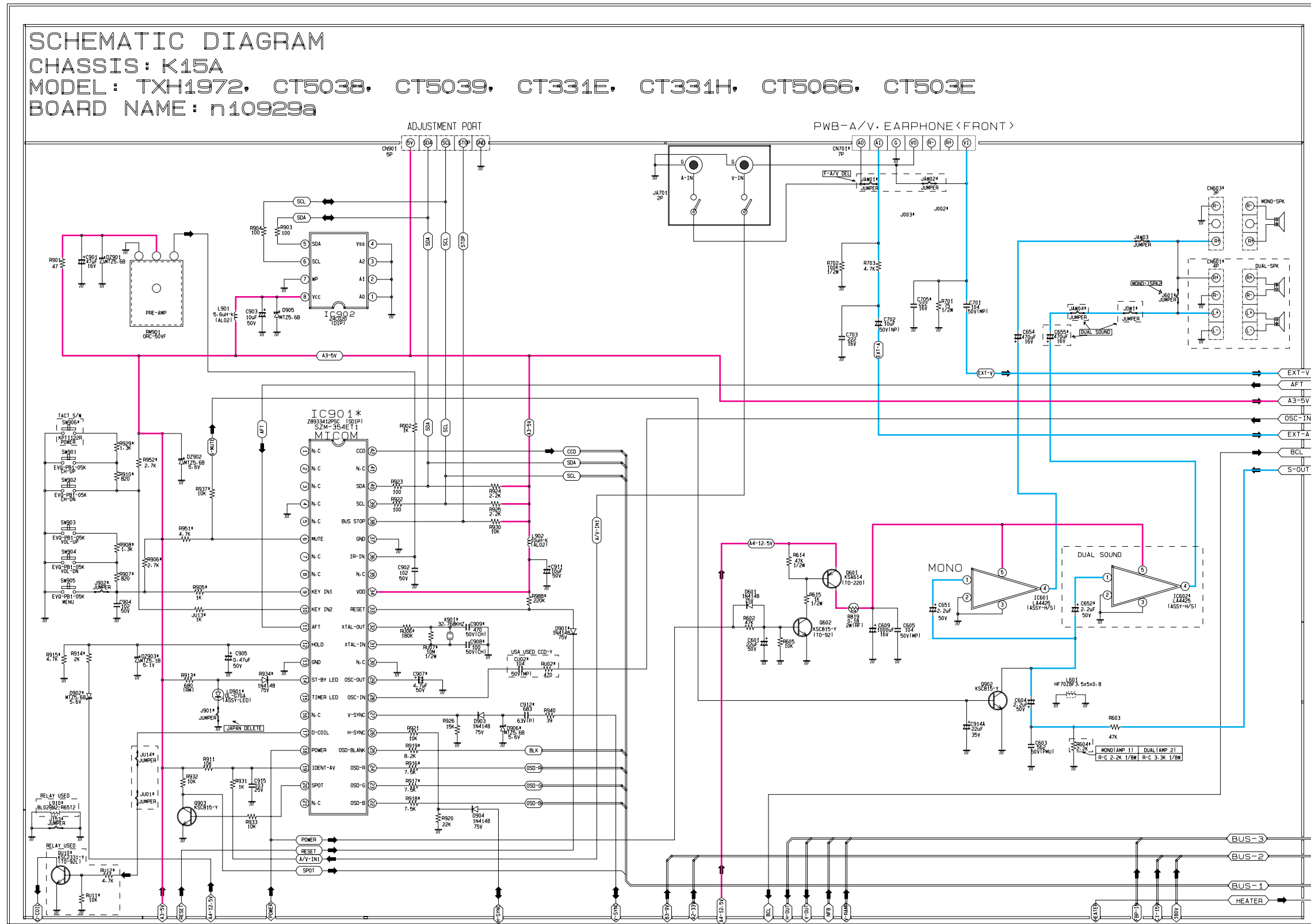
# 10. Wiring Diagram



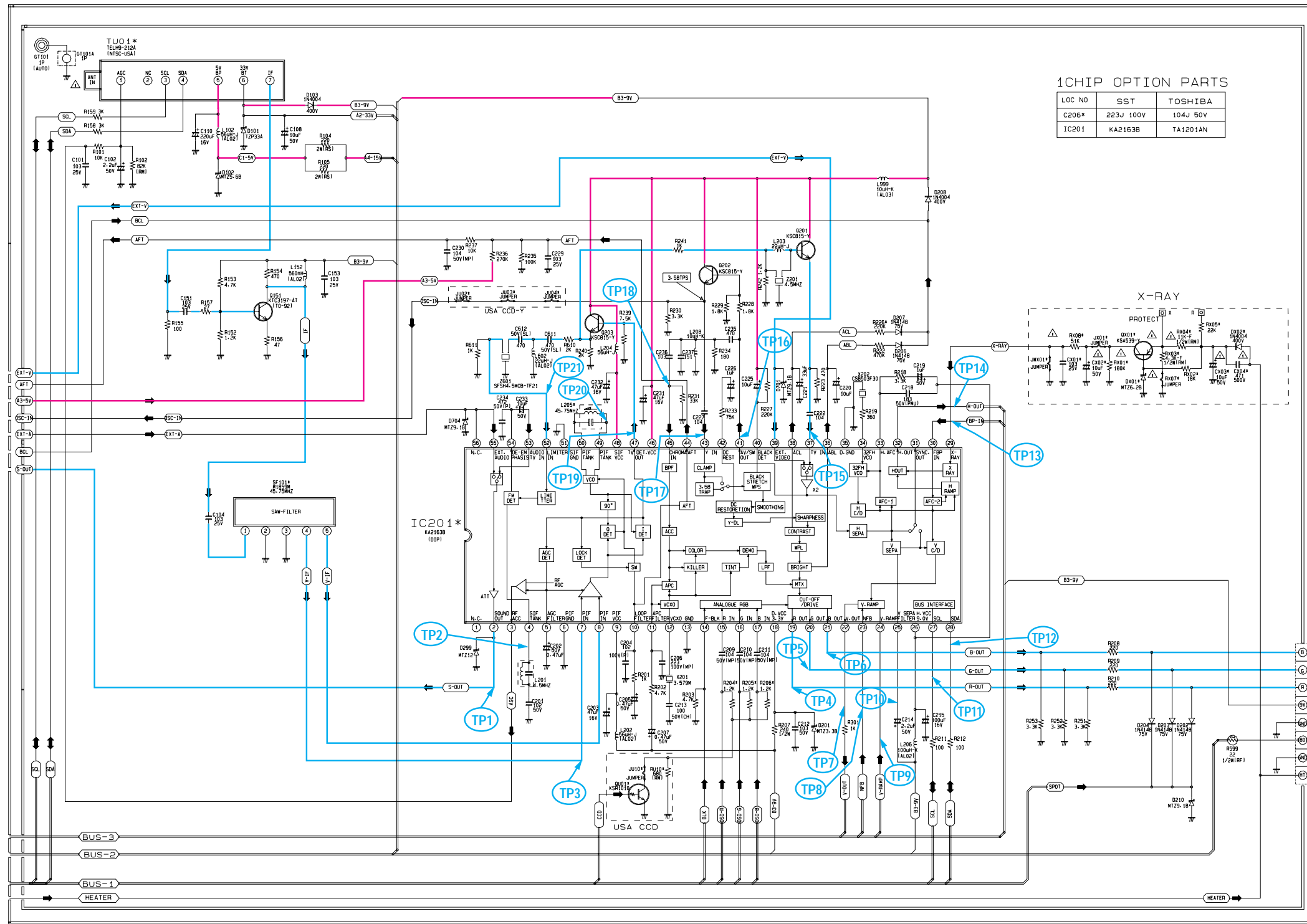


# 11. Schematic Diagrams

## 11-1 MAIN 1/4

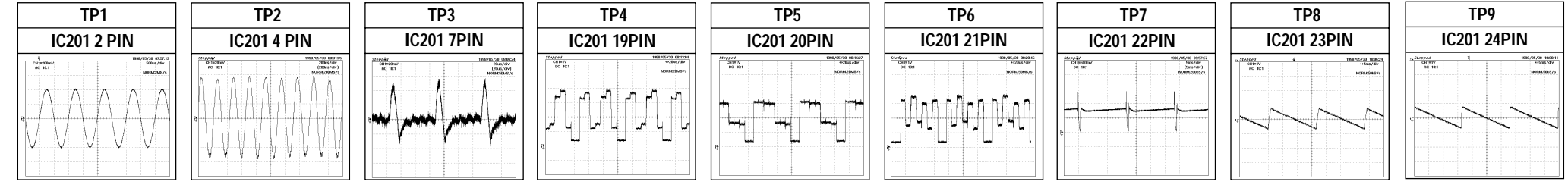
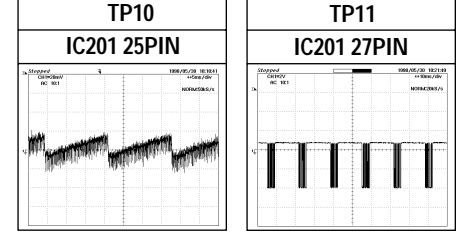
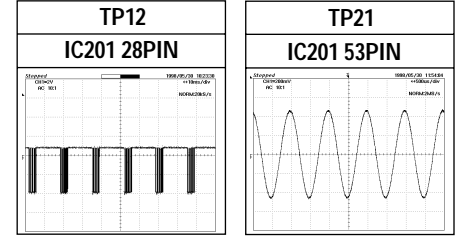
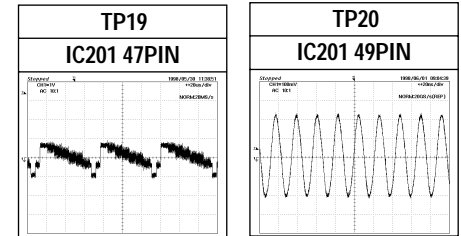
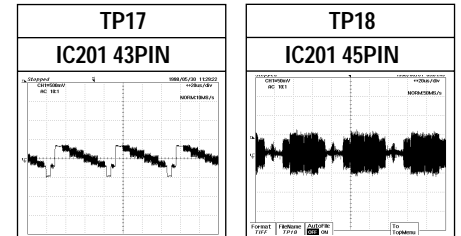
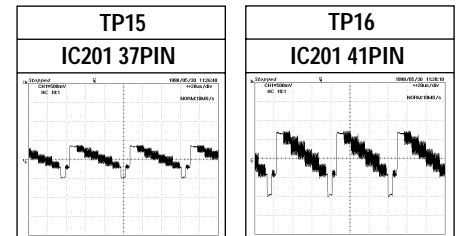
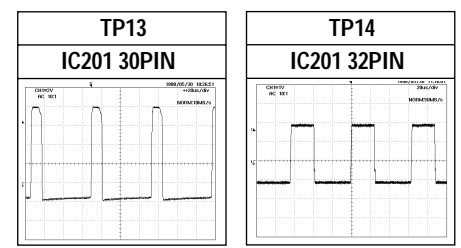


# 11-2 MAIN 2/4



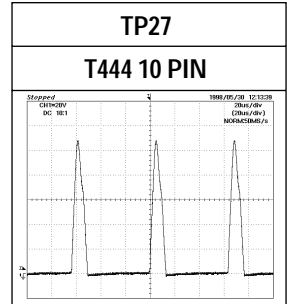
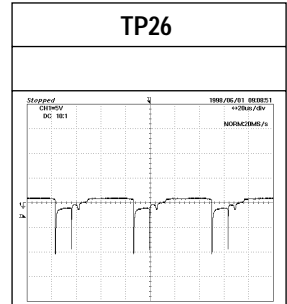
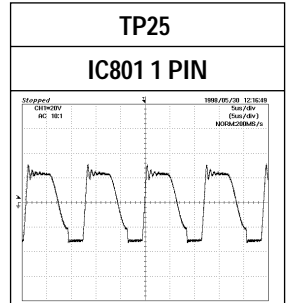
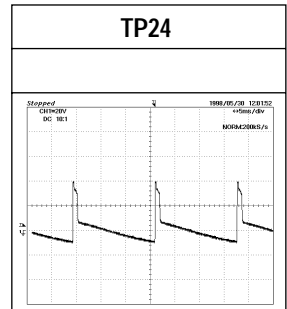
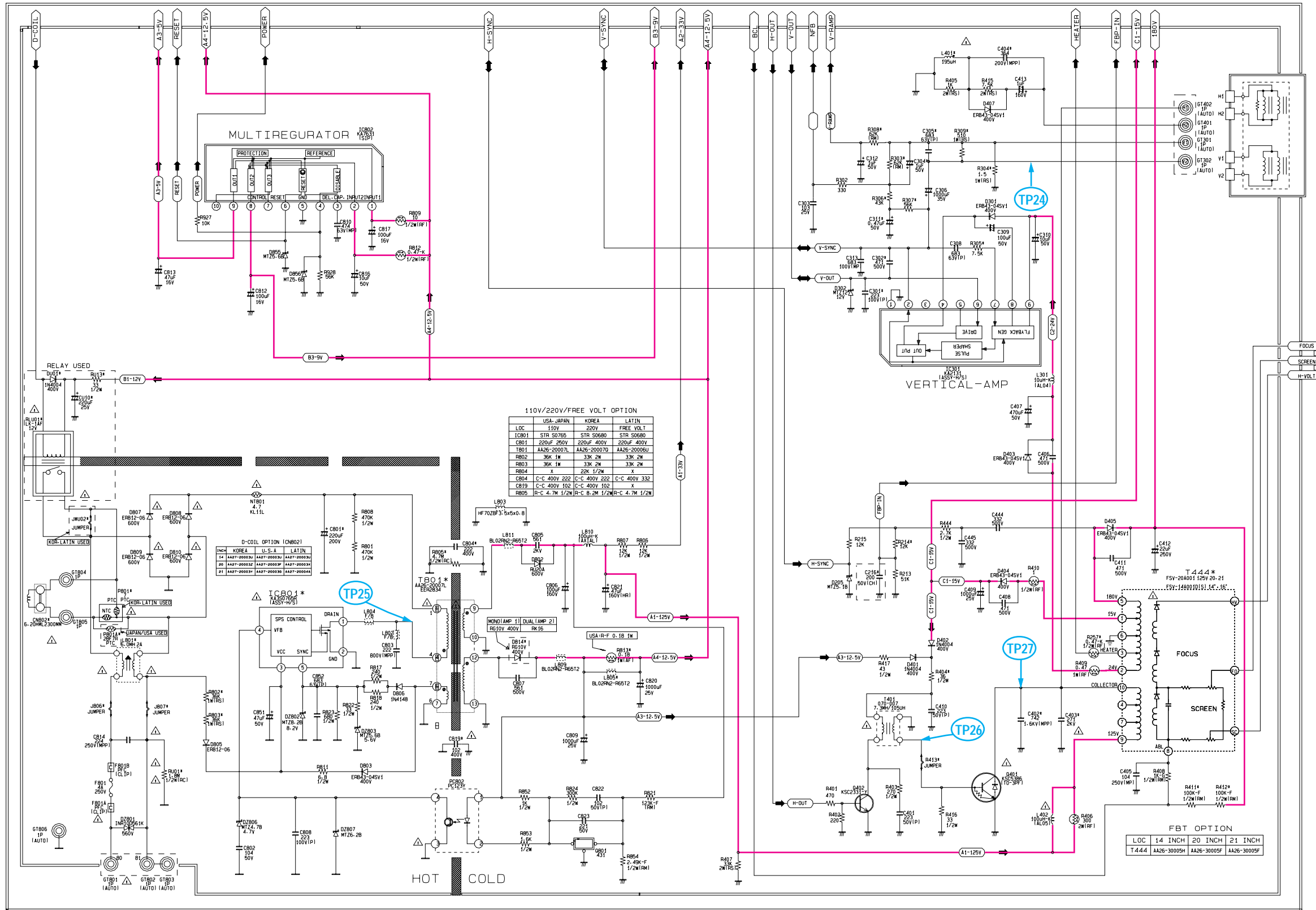
1CHIP OPTION PARTS

LOC NO	SST	TOSHIBA
C206*	223J 100V	104J 50V
IC201	KA2163B	TA1201AN



— : Power Line  
— : Signal Line

11-3 MAIN 3/4



— : Power Line

11-4 MAIN 4/4

